

## SHUTTLE DIMMERS MAXIMUM LED LOADS

Version: 12 November 2018

500W & 800W Rotary, 125W, 250W, 500W & 800W Bell-press

**Notes:** - All Shuttle universal dimmers are factory default in trailing edge mode since trailing edge dimming is recommended for most dimmable LED's and drivers

- In cases of a specific LED being listed for leading and trailing edge, the leading edge data was requested by the supplier

- If the LED or dimmer supplier does not provide measured data, calculate the maximum number of LED's per dimmer as follows:

$$\text{Max. number of LED's per dimmer} = \frac{\text{Dimmer Max. rating (W/VA)}}{\text{LED's equivalent GLS/Halogen wattage}}$$

Shuttle Universal dimmers (Live In and Load Out, No Neutral required)									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
1	Ace	GU10	3.0	Internal	Leading Edge	1 - 17	1 - 32	1 - 62	1 - 111
2	Ace	GU10	4.0	Internal	Leading Edge	1 - 10	1 - 19	1 - 37	1 - 66
3	Ace	GU10	5.0	Internal	Leading Edge	1 - 5	1 - 9	1 - 19	1 - 33
4	ACDC Dynamics	TP-DC-10W E27	10.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 38
5	ACDC Dynamics	DIM-R68-8W-CW E27	8.0	Internal	Trailing Edge	1 - 17	1 - 33	1 - 65	1 - 115
6	ACDC Dynamics	DIM-R68-8W-WW E27	8.0	Internal	Trailing Edge	1 - 17	1 - 33	1 - 65	1 - 115
7	ACDC Dynamics	DIM-A60-S10W-E27-CW	10.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
8	ACDC Dynamics	BF-T45-S E27 Filament	2.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 48	1 - 86
9	ACDC Dynamics	GL-P12WA-CW Panel Light	12.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 54
10	ACDC Dynamics	DIM-R50-6W-CW	6.0	Internal	Trailing Edge	1 - 15	1 - 29	1 - 57	1 - 102
11	ACDC Dynamics	AS-C35-ST E14 Filament	2.0	Internal	Trailing Edge	1 - 28	1 - 53	1 - 103	1 - 182
12	ACDC Dynamics	LEDA35E-WW	4.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 65
13	ACDC Dynamics	DIM-KL-GU10-7W-CW	7.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 90
14	ACDC Dynamics	LCM8106-60DIM-WW PAR38	18.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 18	1 - 31
15	ACDC Dynamics	LCM8106-60DIM-CW PAR38	18.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 13	1 - 23
16	ACDC Dynamics	DIM-PAR30-12W-CW	12.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 20
17	ACDC Dynamics	LCM8106-160DIM-CW PAR38	18.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 13	1 - 23
18	ACDC Dynamics	DIM-PAR20-10W-CW	10.0	Internal	Trailing Edge	1 - 4	1 - 8	1 - 16	1 - 29
19	ACDC Dynamics	LEDC35E-E27-CW Candle	3.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
20	ACDC Dynamics	LEDC35E-E27 (Candle)	3.5	Internal	Trailing Edge	1 - 15	1 - 28	1 - 55	1 - 98
21	ACDC Dynamics	LEDC212-CW	3.0	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
22	ACDC Dynamics	DIM-GU10-35-60-CW	4.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 55

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
23	ACDC Dynamics	DIM-GU10-5W-CW	5.0	Internal	Trailing Edge	1 - 2	1 - 4	1 - 9	1 - 17
24	ACDC Dynamics	DIM-KL-MR16-7W-CW	7.0	External (LW70)	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
25	ACDC Dynamics	DIM-MR16-GW-CW	4.0	External (LW70)	Trailing Edge	1 - 17	1 - 33	1 - 65	1 - 115
26	ACDC Dynamics	DIM-MR16-35-60-DL	4.0	External (LW70)	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
27	ACDC Dynamics	DIM-MR16-35-60-CW	4.0	External (LW70)	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
28	ACDC Dynamics	DIM-MR16-35-60-CW-230	4.0	External (LW70)	Trailing Edge	1 - 35	1 - 67	1 - 130	1 - 231
29	ALT LED (Aeon)	T8 Tube V4 T03RNP23ES-19	22.5	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 20
30	ALT LED (Aeon)	T8 Tube V4 T03RNP46ES-19	46.0	Internal	Trailing Edge	1 - 2	1 - 3	1 - 7	1 - 12
31	ALT LED (Aeon)	V2.5 GU10/GZ10	5.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
32	ALT LED (Aeon)	MR16 7W	7.0	Pharox Transformer	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
33	ALTSA	TL DL 610W 40KC	10.0	ALTSA 300mA driver	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
34	ALTSA	TL DL 630W 40KC	30.0	ALTSA 750mA driver	Trailing Edge	1 - 2	1 - 3	1 - 7	1 - 13
35	Apollo	TSL91E164D A80 (E27) *	7.0	Internal	Trailing Edge	2 - 7	2 - 13	2 - 27	2 - 48
36	Apollo	TSL91E165D A80 (E27) *	10.0	Internal	Trailing Edge	2 - 6	2 - 12	2 - 24	2 - 43
37	Applo	DIM MR16 GU10	5.0	Internal	Trailing Edge	2 - 14	2 - 26	2 - 51	2 - 91
38	Applo	GU10 5W *	5.0	Internal	Trailing Edge	2 - 15	2 - 29	2 - 56	2 - 99
39	Aurora	Candle E14	5.0	Internal	Trailing Edge	1 - 15	1 - 29	1 - 57	1 - 102
40	Aurora	PAR16 GU10 (AU-DGU106A/30)	6.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 38	1 - 68
41	Aurora	PAR16 GU10	6.5	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
42	Aurora	PAR16 GU10 (FLG GU10WD)	6.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 32	1 - 58
43	Aurora	PAR16 GU10 (FLG GU10WD)	6.0	Internal	Leading Edge	1 - 2	1 - 4	1 - 8	1 - 14
44	Aurora	FLCDL19CD	19.0	Aurora 19W LED driver	Trailing Edge	1 - 4	1 - 7	1 - 15	1 - 27
45	Aurora	PAR16 GU10 (AU-DGU1040W/30)	4.0	Internal	Leading Edge	1 - 3	1 - 6	1 - 13	1 - 22
46	Aurora	PAR16 GU10 (AU-DGU1085/30)	8.5	Internal	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
47	Aurora	PAR16 GU10 (AU-DGU1085/40)	8.5	Internal	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
48	Aurora	AU-DL10013AW/30	13.0	Aurora AU-ALDD4015	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
49	Aurora	AU-DL10019AW/30	19.0	Aurora AU-ALDD4019	Trailing Edge	1 - 4	1 - 7	1 - 15	1 - 26
50	Afrison	Floodlight 10W	10.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 54
51	Brightgreen	PR700 MR16	10.0	External **	Trailing Edge	1 - 9	1 - 17	1 - 32	1 - 57

### Shuttle Universal dimmers (Live In and Load Out, No Neutral required )

NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
52	Brightlux	GU10 Spot	4.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 45
53	Brightlux	GU10	5.0	Internal	Trailing Edge	1 - 2	1 - 3	1 - 6	1 - 11
54	Brightlux	GU10 (GNH-AC-GU10-5W-B)	5.0	Internal	Trailing Edge	1 - 19	1 - 36	1 - 70	1 - 123
55	Bright Star	Bulb LED 128 GU10	5.0	Internal	Trailing Edge	2 - 14	2 - 26	2 - 51	2 - 91
56	Bright Star	Bulb LED 128 GU10	5.0	Internal	Leading Edge	2 - 11	2 - 21	2 - 40	2 - 72
57	Bright Star	Bulb LED 145 GU10	5.0	Internal	Trailing Edge	2 - 15	2 - 29	2 - 57	2 - 101
58	Brillance	I4Light 5W GU10	5.0	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
59	Calex	421594 LED Lamp 1020lm	12.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 46
60	Calex	425414 Filament Rustic 320lm	4.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 90
61	Calex	425464 Filament Globe 320lm	4.0	Internal	Trailing Edge	1 - 18	1 - 34	1 - 66	1 - 116
62	Calex	425468 Filament Globe 650lm	6.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 46	1 - 81
63	Calex	425484 Filament Globe 320lm	4.0	Internal	Trailing Edge	1 - 18	1 - 34	1 - 66	1 - 116
64	Calex	425491 Filament Tube 310lm	3.5	Internal	Trailing Edge	1 - 25	1 - 47	1 - 91	1 - 162
65	Calex	425492 Filament Tube 320lm	4.0	Internal	Trailing Edge	1 - 19	1 - 37	1 - 72	1 - 127
66	Calex	425493 Filament Tube 400lm	4.0	Internal	Trailing Edge	1 - 19	1 - 37	1 - 72	1 - 127
67	Calex	425496 Filament Tube 350lm	4.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 90
68	Calex	425732 Filament Flex GLS 200lm	4.0	Internal	Trailing Edge	1 - 15	1 - 29	1 - 57	1 - 102
69	Calex	425782 Filament Globe 200lm	4.0	Internal	Trailing Edge	1 - 18	1 - 34	1 - 66	1 - 116
70	Calex	474483 Filament Spherical 350lm	3.5	Internal	Trailing Edge	1 - 15	1 - 29	1 - 57	1 - 102
71	Calex	474484 Filament Spherical 350lm	4.0	Internal	Trailing Edge	1 - 25	1 - 47	1 - 91	1 - 162
72	Calex	474490 Filament Candle 350lm	3.5	Internal	Trailing Edge	1 - 25	1 - 47	1 - 91	1 - 162
73	Calex	474509 Filament GLS 810lm	7.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 45	1 - 79
74	Calex	474510 Filament GLS 810lm	7.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 38	1 - 68
75	Candela	GU10 short	5.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 48	1 - 86
76	Citizen	COB Series	17.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
77	Diall LED	5W GU10	5.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 48	1 - 86
78	Diall LED	Candle B22 470lm	5.9	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
79	Diall LED	Candle E14 470lm	6.0	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
80	Diall LED	Bulb B22 1521lm **	14.5	Internal	Trailing Edge	1 - 6	1 - 11	1 - 22	1 - 38

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NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
81	DK Lighting	GU10 CL-0002	5.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 44
82	Duracell	Candle *	3.5	Internal	Trailing Edge	1 - 23	1 - 44	1 - 86	1 - 152
83	Duracell	Candle *	3.5	Internal	Leading Edge	1 - 23	1 - 44	1 - 86	1 - 152
84	Duracell	Mini Globe *	3.5	Internal	Trailing Edge	1 - 23	1 - 44	1 - 86	1 - 152
85	Duracell	Mini Globe *	3.5	Internal	Leading Edge	1 - 23	1 - 44	1 - 86	1 - 152
86	Duracell	A-Shape	6.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
87	Duracell	A-Shape	6.0	Internal	Leading Edge	1 - 3	1 - 5	1 - 11	1 - 19
88	Duracell	GU10 Spot (Al housing)	5.0	Internal	Leading Edge	1 - 6	1 - 12	1 - 24	1 - 43
89	Duracell	GU10 Spot (Plastic housing)	5.0	Internal	Leading Edge	1 - 5	1 - 9	1 - 17	1 - 31
90	Eagle Lighting	LED downlighter KK1936/D	12.0	Osram OTE 13 350mA	Trailing Edge	1 - 6	1 - 11	1 - 23	1 - 41
91	Eagle Lighting	LED grille light KK1919	7.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 65
92	Earth Power	Black Max GU10	5.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 20
93	EcoLED	GU10	5.0	Internal	Trailing Edge	1 - 4	1 - 8	1 - 17	1 - 30
94	EcoLED	GU10 DIM	5.0	Internal	Leading Edge	1 - 3	1 - 6	1 - 12	1 - 22
95	EcoLED	GU10 DIM	7.0	Internal	Leading Edge	1 - 6	1 - 11	1 - 21	1 - 38
96	EcoLED	GU10	6.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 19
97	EcoLED	GU10	9.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 19	1 - 34
98	EcoLED	MR16 3W	3.0	Pharox Transformer	Trailing Edge	1 - 10	1 - 19	1 - 39	1 - 70
99	EcoLED	MR16 6W	6.0	Pharox Transformer	Trailing Edge	1 - 11	1 - 20	1 - 39	1 - 70
100	Ellies	FLGU10C (non-dimmable)	3.5	Internal	Trailing Edge	1 - 16	1 - 30	1 - 59	1 - 104
101	Ellies	FLGU10C (non-dimmable)	4.0	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 92
102	Ellies	FLGU10CD	5.0	Internal	Trailing Edge	1 - 14	1 - 27	1 - 54	1 - 95
103	Ellies	FL24W15T8DL (non-dimmable)	24.0	Internal	Trailing Edge	1 - 4	1 - 7	1 - 15	1 - 27
104	Enlite	EN-DCNDE145/27 E14 Candle	5.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
105	Enlite	EN-DGU005/30	5.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 45
106	Enlite	EN-DGU1005/40	5.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 42
107	Enlite	EN-DGU1005/27	5.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 42
108	Enlite	EN-DDL101/27	8.0	Integrated	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 36
109	Enlite	EN-DDL10/40	10.0	Integrated	Trailing Edge	1 - 7	1 - 14	1 - 28	1 - 49

### Shuttle Universal dimmers (Live In and Load Out, No Neutral required )

NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
110	Enlite	EN-DDL15/40	15.0	Integrated	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 38
111	Enlite	EN-DDL20/40	20.0	Integrated	Trailing Edge	1 - 4	1 - 8	1 - 16	1 - 29
112	Enlite	EN-DDL25/40	25.0	Integrated	Trailing Edge	1 - 3	1 - 6	1 - 13	1 - 23
113	Enviro-Bulb	E55-GU-35WWD (GU10 3000K) 90059	5.5	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 41
114	Enviro-Bulb	E55-GU-35CWD (GU10 4000K) 90060	5.5	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 41
115	Enviro-Bulb	E55-GU-35DWD (GU10 5000K) 90061	5.5	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 41
116	Enviro-Bulb	E55C-E14-WWD (E14 2700K) 90038	5.5	Internal	Trailing Edge	1 - 7	1 - 13	1 - 24	1 - 43
117	Enviro-Bulb	E55C-E27-WWD (E27 2700K) 90039	5.5	Internal	Trailing Edge	1 - 7	1 - 13	1 - 24	1 - 43
118	Enviro-Bulb	E55C-B22-WWD (B22 2700K) 90043	5.5	Internal	Trailing Edge	1 - 7	1 - 13	1 - 24	1 - 43
119	Eurolux	G727CW-LED-GU10	7.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 38
120	Eurolux	G478CW-LED-GU10	7.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 47	1 - 83
121	Eurolux	Candle G977	6.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
122	Eurolux	Candle G952	6.0	Internal	Trailing Edge	1 - 16	1 - 31	1 - 61	1 - 108
123	Flash	GU10 (600 969 636 8382)	7.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 22
124	Flash	GU10 (600 969 636 9945)	7.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 18	1 - 32
125	Flash	LED Filament ST64 Pear E27 *	4.0	Internal	Trailing Edge	1 - 28	1 - 54	1 - 105	1 - 187
126	Futurelight	GU10 5W Spot	5.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 44
127	GAP	SMD LED GU10	6.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 21
128	GC	GU10 (LED CUP)	6.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 21
129	GC	GU10 VLC-1005Z	6.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 21
130	GC	GU10 LED Spot Light	6.0	Internal	Trailing Edge	1 - 15	1 - 29	1 - 57	1 - 102
131	GE	GU10	6.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 73
132	Genesis One	GU10D63	6.3	Internal	Trailing Edge	1 - 15	1 - 28	1 - 55	1 - 98
133	Genesis One	GU10D7	7.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 49	1 - 87
134	GEP Power	GU10 460lm	6.5	Internal	Trailing Edge	1 - 8	1 - 15	1 - 28	1 - 51
135	GEP Power	GU10 556lm	7.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 28	1 - 51
136	G Light	GU10 36D	6.5	Internal	Trailing Edge	1 - 9	1 - 17	1 - 35	1 - 63
137	G Light	GU10 36D 4000K	6.5	Internal	Trailing Edge	1 - 12	1 - 23	1 - 45	1 - 79
138	G Light	GU10 36D ECO 4000K	7.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 43	1 - 76

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
139	Giantlight	LED Panel, AC 72x LED's	40.0	Internal	Trailing Edge	1 - 2	1 - 4	1 - 10	1 - 17
140	Hi-Tech	FXCGU10	7.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 45	1 - 80
141	Havells	BrightFill Filament Candle	5.0	Internal	Trailing Edge	1 - 15	1 - 28	1 - 55	1 - 98
142	Havells	BrightFill Filament A60	7.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
143	Havells	GU10 865 Dim	6.5	Internal	Trailing Edge	1 - 9	1 - 17	1 - 32	1 - 57
144	InterEnergy	GU10 "Silver"	5.0	Internal	Trailing Edge	1 - 2	1 - 4	1 - 9	1 - 17
145	InterEnergy	GU10 "White"	5.0	Internal	Trailing Edge	1 - 2	1 - 4	1 - 9	1 - 17
146	InterEnergy	K50	12.0	External (K50 Driver)	Trailing Edge	1 - 4	1 - 7	1 - 14	1 - 25
147	InterEnergy	G50	8.0	External (G50 Driver)	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 65
148	InterEnergy	B80	12.0	External (B80 Driver)	Trailing Edge	1 - 4	1 - 7	1 - 14	1 - 25
149	Johnson	GU10 (WW & CW)	6.0	Internal	Leading Edge	1 - 3	1 - 5	1 - 11	1 - 19
150	K. Light	GU10 (COB 550lm)	7.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 50	1 - 89
151	K. Light	Filament Bulb UF-L01761-D	4.0	Internal	Trailing Edge	1 - 23	1 - 44	1 - 86	1 - 152
152	Krillux	GU10 Glass GUL016 3000K	6.0	Internal	Trailing Edge	1 - 15	1 - 28	1 - 55	1 - 97
153	Krillux	GU10 Glass GUL017 4000K	6.0	Internal	Trailing Edge	1 - 15	1 - 28	1 - 55	1 - 97
154	Krillux	GU10 Glass GUL018 6000K	6.0	Internal	Trailing Edge	1 - 15	1 - 28	1 - 55	1 - 97
155	Krillux	GU10 EVE001	5.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
156	Krillux	Candle E14 CAP010 3000K	5.0	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
157	Krillux	Candle E14 CAP011 4000K	5.0	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
158	Landmark	RL-5WD-15WW	5.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 21
159	LDC	GU10 (001510)	5.0	Internal	Trailing Edge	1 - 15	1 - 28	1 - 55	1 - 98
160	Ledionopto	GU10C	7.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
161	Ledionopto	TD20 Series downlighter	7.0	350mA driver	Trailing Edge	1 - 9	1 - 17	1 - 32	1 - 57
162	Ledionopto	TD36 Series downlighter	15.0	700mA driver	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 35
163	Ledionopto	DLV LED 25W NW	25.0	700mA driver	Trailing Edge	1 - 2	1 - 4	1 - 8	1 - 15
164	LED Lumo	GU10	6.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 54
165	LED Lumo	GU10 (Aluminium housing)	6.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 23	1 - 40
166	Ledvance	See Osram / Ledvance below							
167	LEDwise	ML7-WW-36-AL-D	9.6	External **	Trailing Edge	1 - 6	1 - 11	1 - 22	1 - 38

### Shuttle Universal dimmers (Live In and Load Out, No Neutral required )

NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
168	Lightbulbmoment	LBM-G4-1.5W-PL03-DIM	1.5	Verbatim LW70	Trailing Edge	1 - 41	1 - 78	1 - 151	1 - 268
169	Lightbulbmoment	LBM-GU10-4.5W-DIM	4.5	Internal	Leading Edge	1 - 3	1 - 5	1 - 11	1 - 19
170	Lightbulbmoment	LBM-GU10-5W-DIM	5.0	Internal	Leading Edge	1 - 5	1 - 10	1 - 20	1 - 36
171	Lightbulbmoment	LBM-GU10-7.5W-DIM	7.5	Internal	Leading Edge	1 - 3	1 - 6	1 - 12	1 - 21
172	Lightnet	MGM Gimbal 840 36D 300680	25.0	Tridonic LCBI 25W	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 21
173	Limelight	GU10 380lm	4.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 20
174	Lights by Linea	Model 7"	17.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 22	1 - 39
175	Light Leader (GEP)	GU10-CY2-D	4.5	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
176	Light Leader (GEP)	GU10-COB-YZ-D	7.5	Internal	Trailing Edge	1 - 4	1 - 7	1 - 14	1 - 25
177	Lightspot	Littleou 420lm GU10 *	6.0	Internal	Trailing Edge	1 - 14	1 - 27	1 - 53	1 - 94
178	Li Zhau	Panel LED 3W	3.0	Li Zhau 4W Driver	Leading Edge	1 - 3	1 - 6	1 - 12	1 - 22
179	Li Zhau	Panel LED 6W	6.0	Li Zhau 7W Driver	Leading Edge	1 - 3	1 - 5	1 - 10	1 - 18
180	Li Zhau	Panel LED 9W	9.0	Li Zhau 15W Driver	Leading Edge	1 - 2	1 - 4	1 - 9	1 - 16
181	LMR Lighting	GU10	6.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 51
182	LMR Lighting	GU10	7.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
183	Luc-Eco	GU10 (LGDW5W37-01)	5.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
184	Luc-Eco	GU10 (LGDW5W37-01)	5.0	Internal	Leading Edge	1 - 4	1 - 7	1 - 13	1 - 24
185	Luc-Eco	GU10 (LGU5W380D40W-01)	5.0	Internal	Leading Edge	1 - 5	1 - 10	1 - 20	1 - 36
186	Lumaglo	G5-GU10/5.5/DC	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
187	Lumax	LUM-GU10-SMD-SH-4.5W *	4.5	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 92
188	Lumax	LUM-GU10-COB-SU-5W *	5.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 49	1 - 88
189	Lumax	GU10 WW	4.5	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
190	Lumax	GU10 (Single LED)	5.0	Internal	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 35
191	Lumax	GU10 SMD 2835	7.5	Internal	Trailing Edge	3 - 14	3 - 27	3 - 54	3 - 95
192	Lumax	GU10 (Single LED)	8.0	Internal	Trailing Edge	3 - 5	3 - 9	3 - 18	3 - 33
193	Lumax	A60 Bulb	7.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 45
194	Lumax	A60 Bulb SMD 2835	9.5	Internal	Trailing Edge	3 - 9	3 - 17	3 - 34	3 - 60
195	Lumax	E14 Candle	3.0	Internal	Trailing Edge	1 - 33	1 - 63	1 - 121	1 - 215
196	Lumax	GU10 30SMD	5.0	Internal	Trailing Edge	1 - 20	1 - 38	1 - 74	1 - 132

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
197	Lumax	GU10 (Glass)	5.5	Internal	Trailing Edge	1 - 21	1 - 40	1 - 77	1 - 136
198	Lumax	GU10 (LUM-GUDCG/05) – Glass	5.0	Internal	Trailing Edge	1 - 18	1 - 34	1 - 65	1 - 116
199	Lumax	Candle E14 (LUM-CD3714/05-3K)	5.0	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
200	Lumax	GU10 (LUM-GUD/055-4K)	5.5	Internal	Trailing Edge	1 - 8	1 - 15	1 - 28	1 - 51
201	Lumax	S11 G45 *	5.0	Internal	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 36
202	Lumax	S11 GU10 *	5.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
203	Lumax	S11 C37 *	5.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 19	1 - 34
204	Lumax	S11 A60 *	9.0	Internal	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 36
205	Luminence	K50-R7	9.5	Dimtronic 260mA driver	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
206	Luxn	LED Spot GU10	5.0	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
207	Major Tech	GU10 (L2A-D3W)	3.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 22
208	Major Tech	GU10 (L2A-D5C)	5.0	Internal	Trailing Edge	1 - 2	1 - 4	1 - 9	1 - 16
209	Major Tech	GU10 (L2A-D5W)	5.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 19
210	Major Tech	LED filament E14 (LFC35E14-D4W)	4.0	Internal	Trailing Edge	1 - 25	1 - 48	1 - 92	1 - 163
211	Major Tech	Candle E14 (LC38E14-D48W)	4.8	Internal	Trailing Edge	1 - 22	1 - 42	1 - 81	1 - 143
212	Major Tech	LED filament E27 (LFA60E27-D6W)	6.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 46
213	Major Tech	E27 (LA60E27-D7C)	7.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 54
214	Majortech	DLW-9C	9.0	External (MLD-10W)	Leading Edge	1 - 3	1 - 5	1 - 10	1 - 18
215	Mezmerize	HL-MZ-5.5W-GU10-D	5.5	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 19
216	Mezmerize	HL-MZ-8W-GU10-D	8.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 34	1 - 61
217	Mezmerize	HL-UDL-003 6W Panel 300mA	6.0	FSDKE0409301	Trailing Edge	1 - 2	1 - 4	1 - 9	1 - 17
218	Mezmerize	HL-UDL-005 12W Panel 300mA	12.0	FSDKE1524301	Trailing Edge	1 - 1	1 - 2	1 - 6	1 - 10
219	Mezmerize	Round 18W Panel 300mA	18.0	FSDKE1524301	Trailing Edge	1 - 1	1 - 2	1 - 4	1 - 8
220	Mezmerize	Round 24W Panel 300mA	24.0	FSDKE1524301	Trailing Edge	1 - 1	1 - 2	1 - 4	1 - 7
221	Mezmerize	ML-DL-10W-TR	10.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
222	Mezmerize	ML-Z-4.8W-GU10-2.7K-D	4.8	Internal	Trailing Edge	1 - 5	1 - 9	1 - 18	1 - 32
223	Mezmerize	ML-Z-4.8W-GU10-4K-D	4.8	Internal	Trailing Edge	1 - 5	1 - 9	1 - 18	1 - 32
224	Mezmerize	ML-Z-4.8W-GU10-6K-D	4.8	Internal	Trailing Edge	1 - 5	1 - 9	1 - 18	1 - 32
225	Mezmerize	ML-Z-G45-4.5W *	4.5	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111



### Shuttle Universal dimmers (Live In and Load Out, No Neutral required )

NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
226	Mezmerize	ML-Z-C37-4.5W *	4.5	Internal	Trailing Edge	1 - 25	1 - 48	1 - 94	1 - 166
227	Mezmerize	ML-Z-6.8W-GU10-W	6.8	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 55
228	Mezmerize	ML-Z-A60-9W	9.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 10	1 - 18
229	Mezmerize	ML-TR-10W-CCT (Halo Trio series 3 in 1)	10.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 32	1 - 57
230	Mezmerize	Candle C35 Filament	2.0	Internal	Trailing Edge	1 - 31	1 - 60	1 - 116	1 - 207
231	Mezmerize	Antique Edison Bulb ST64	4.0	Internal	Trailing Edge	1 - 20	1 - 38	1 - 75	1 - 133
232	Mezmerize	Antique Edison Bulb G95	4.0	Internal	Trailing Edge	1 - 20	1 - 38	1 - 75	1 - 133
233	Mezmerize	230VAC Strip LED 1m *	8.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 46	1 - 81
234	Mezmerize	230VAC LED Tapelight 1m (white/colour)*	8.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 47	1 - 83
235	Mezmerize	230VAC LED Neon Flex 1m (white/colour)*	8.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 47	1 - 83
236	Meteor	GU10	3.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 51
237	Meteor	GU10	4.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
238	Meteor	GU10	6.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 19
239	NVC	NLED110D (350mA)	9.0	Aurora 1-10W Driver	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 38
240	NVC	NLED110D (350mA)	9.0	Aurora 7-10W Driver	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 53
241	NVC	NLED111D (500mA)	12.0	Aurora 20W Driver	Trailing Edge	1 - 7	1 - 13	1 - 27	1 - 48
242	NVC	G Light GU10	6.5	Internal	Trailing Edge	1 - 9	1 - 17	1 - 35	1 - 62
243	NVC	LED GU10D	7.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 73
244	MSI	"I"GU10	5.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 51
245	O-Lite	LEDGU10-6WD	6.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 10	1 - 18
246	O-Lite	OL-CY03 (Cyclops Range)	3.0	O-lite Mini D26004NT	Trailing Edge	1 - 19	1 - 36	1 - 71	1 - 126
247	O-Lite	OL-CY06 (Cyclops Range)	6.0	O-lite D26009NT	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
248	O-Lite	OL-CY12 (Cyclops Range)	12.0	O-lite D26012NT	Trailing Edge	1 - 9	1 - 17	1 - 34	1 - 60
249	O-Lite	OL-CY18 (Cyclops Range)	18.0	O-lite D26020NT	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 35
250	Opplé	GU10 Spot Light	5.0	Internal	Trailing Edge	1 - 15	1 - 29	1 - 57	1 - 102
251	Opplé	LED-E-E27-6W-DIM	6.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
252	Opplé	GU10 Spot Light	7.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 54
253	OptiLED	Tornado GU10 5.5W	5.5	Internal	Trailing Edge	1 - 6	1 - 11	1 - 22	1 - 39
254	Optique	XOPT3012	12.0	Actec DIM300mA	Trailing Edge	1 - 4	1 - 7	1 - 13	1 - 24

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
255	Osram / Ledvance	Parathom Pro PAR16 50 Advanced R	9.5	Internal	Trailing Edge	1 - 10	1 - 19	1 - 38	1 - 68
256	Osram / Ledvance	Parathom Pro PAR16 50 Advanced R	10.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 34	1 - 61
257	Osram / Ledvance	Parathom Pro PAR16 50 Advanced	5.3	Internal	Trailing Edge	1 - 12	1 - 23	1 - 44	1 - 78
258	Osram / Ledvance	Parathom Pro PAR16 50 (Adv)	5.5	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
259	Osram / Ledvance	Parathom Pro MR16 20 Advanced	5.0	External **	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
260	Osram / Ledvance	Parathom Pro MR16 35 Advanced	5.9	External **	Trailing Edge	2 - 12	2 - 23	2 - 47	2 - 83
261	Osram / Ledvance	Parathom Pro MR16 35 Advanced	7.0	External **	Trailing Edge	1 - 11	1 - 21	1 - 40	1 - 71
262	Osram / Ledvance	Parathom Pro MR16 35 Advanced R	10.0	External **	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 46
263	Osram / Ledvance	Parathom Pro LEDSpot AR111 50 Adv.	12.0	External **	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
264	Osram / Ledvance	Parathom Classic P25 Advanced	4.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 28	1 - 51
265	Osram / Ledvance	Parathom Classic P40 Advanced	6.0	Internal	Trailing Edge	1 - 16	1 - 30	1 - 58	1 - 103
266	Osram / Ledvance	Parathom PAR16 65 Advanced	8.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
267	Osram / Ledvance	LED Superstar PAR16 35 (Adv)	3.6	Internal	Trailing Edge	1 - 16	1 - 31	1 - 60	1 - 107
268	Osram / Ledvance	LED Superstar PAR16 35 Advanced	4.8	Internal	Trailing Edge	1 - 16	1 - 30	1 - 59	1 - 105
269	Osram / Ledvance	LED Superstar PAR16 35 Advanced *	5.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 49	1 - 88
270	Osram / Ledvance	LED Superstar PAR16 50 *	4.6	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
271	Osram / Ledvance	LED Superstar PAR16 50 Advanced *	4.6	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
272	Osram / Ledvance	LED Superstar PAR16 50 (Adv) *	5.0	Internal	Trailing Edge	1 - 16	1 - 30	1 - 59	1 - 105
273	Osram / Ledvance	LED Superstar PAR16 50 Advanced	5.3	Internal	Trailing Edge	1 - 12	1 - 23	1 - 44	1 - 78
274	Osram / Ledvance	LED Superstar PAR16 50 (Adv)	5.5	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
275	Osram / Ledvance	LED Superstar PAR16 50 (Adv)	6.0	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
276	Osram / Ledvance	LED Superstar PAR16 50 Advanced	7.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 72
277	Osram / Ledvance	LED Superstar PAR16 50 Advanced	7.5	Internal	Trailing Edge	1 - 9	1 - 17	1 - 34	1 - 61
278	Osram / Ledvance	LED Superstar MR16 50 Advanced	8.5	External **	Trailing Edge	1 - 9	1 - 17	1 - 33	1 - 58
279	Osram / Ledvance	LED Superstar MR16 35 Advanced	4.9	External **	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
280	Osram / Ledvance	LED Superstar MR16 35 Advanced	5.0	External **	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
281	Osram / Ledvance	LED Superstar MR16 35 Advanced	6.8	External **	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 55
282	Osram / Ledvance	LED Superstar MR16 35 Advanced	6.5	External **	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
283	Osram / Ledvance	LED Superstar Classic B 25 Advanced	4.5	Internal	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 72

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
284	Osram / Ledvance	LED Superstar Classic B 40 *	5.7	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
285	Osram / Ledvance	LED Superstar Classic B 40 Advanced *	6.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
286	Osram / Ledvance	LED Superstar Classic P 25 Advanced	4.5	Internal	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 72
287	Osram / Ledvance	LED Superstar Classic A 60	8.5	Internal	Trailing Edge	1 - 7	1 - 14	1 - 28	1 - 49
288	Osram / Ledvance	LED Superstar Classic A 60	9.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 39	1 - 69
289	Osram / Ledvance	LED Superstar Classic A 60 Advanced	10.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 54
290	Osram / Ledvance	LED Superstar Classic A 60 Advanced	12.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 55
291	Osram / Ledvance	LED Superstar Globe 95 60 Advanced	9.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 13	1 - 22
292	Osram / Ledvance	Vintage 1906 LED Edison (filament)	7.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
293	Osram / Ledvance	RDL 2014163	5.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 32	1 - 58
294	Osram / Ledvance	Luxpoint Mini G2 *	12.0	Internal	Trailing Edge	2 - 7	2 - 13	2 - 26	2 - 46
295	Pharox	MR16 5W	5.0	Pharox Transformer	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 73
296	Pharox	P200 P45	4.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
297	Pharox	P200 P45	4.0	Internal	Leading Edge	1 - 4	1 - 8	1 - 17	1 - 30
298	Pharox	P200 Candle	3.5	Internal	Leading Edge	1 - 5	1 - 9	1 - 18	1 - 32
299	Robus	R50GU10D	5.0	Internal	Leading Edge	1 - 7	1 - 13	1 - 26	1 - 45
300	Pharox	GU10	5.5	Internal	Trailing Edge	1 - 11	1 - 20	1 - 39	1 - 70
301	Pharox	GU10	5.5	Internal	Leading Edge	1 - 3	1 - 6	1 - 12	1 - 21
302	Pharox	P300 GU10	5.5	Internal	Trailing Edge	1 - 7	1 - 13	1 - 27	1 - 48
303	Pharox	P600	8.5	Internal	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 36
304	Pharox	#105010 360lm (Candle) *	4.0	Internal	Trailing Edge	1 - 32	1 - 61	1 - 119	1 - 210
305	Pharox	#105011 320lm (Flame Filament) *	4.0	Internal	Trailing Edge	1 - 32	1 - 61	1 - 119	1 - 210
306	Pharox	#105012 410lm (Candle Filament) *	4.0	Internal	Trailing Edge	1 - 32	1 - 61	1 - 119	1 - 210
307	Pharox	#105510 400lm (Filament) *	4.0	Internal	Trailing Edge	1 - 32	1 - 61	1 - 119	1 - 210
308	Pharox	#106010 360lm (Bulb) *	4.0	Internal	Trailing Edge	1 - 27	1 - 51	1 - 99	1 - 175
309	Pharox	#106011 400lm (Filament) *	4.0	Internal	Trailing Edge	1 - 27	1 - 51	1 - 99	1 - 175
310	Pharox	#106012 320lm (Flame Filament) *	4.0	Internal	Trailing Edge	1 - 27	1 - 51	1 - 99	1 - 175
311	Pharox	#106510 600lm (Filament) *	6.0	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
312	Pharox	P800 A60 Lamp 470lm *	7.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 34	1 - 61

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
313	Pharox	P800 A60 Lamp 810lm *	10.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 23	1 - 42
314	Pio LED	GU10	3.0	Internal	Trailing Edge	1 - 14	1 - 27	1 - 54	1 - 95
315	Pio LED	GU10	4.5	Internal	Trailing Edge	1 - 12	1 - 23	1 - 45	1 - 79
316	Pio LED	GU10	5.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 43	1 - 76
317	Pio LED	GU10	6.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 54
318	Philips	Master LEDspot GU10 40D	4.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 33	1 - 58
319	Philips	Master LEDspot GU10 MV Value *	4.3	Internal	Trailing Edge	1 - 17	1 - 32	1 - 63	1 - 112
320	Philips	Master LEDspot GU10 MV Value	5.3	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
321	Philips	Master LEDspot GU10 40D (MV)	6.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 28	1 - 50
322	Philips	Master LEDspot GU10 40D	7.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 28	1 - 50
323	Philips	Master LEDspot GU10 40D	8.0	Internal	Trailing Edge	1 - 3	1 - 6	1 - 13	1 - 22
324	Philips	Master LEDspot GU10 PF	6.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 47
325	Philips	Master LEDcandle E14	3.0	Internal	Trailing Edge	1 - 15	1 - 28	1 - 54	1 - 96
326	Philips	Master LEDbulb E27	12.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 38
327	Philips	Master LEDspot GU5.3 MR16	7.0	External **	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 52
328	Philips	Master LEDspot GU5.3 MR16	10.0	External **	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 45
329	Philips	Master LEDspot GU10 MV	5.4	Internal	Trailing Edge	1 - 11	1 - 21	1 - 40	1 - 72
330	Philips	Master LEDspot GU10 MV Value	3.5	Internal	Trailing Edge	1 - 19	1 - 36	1 - 70	1 - 124
331	Philips	Master LEDspot ExpertColor GU10	3.9	Internal	Trailing Edge	1 - 20	1 - 38	1 - 75	1 - 133
332	Philips	Master LEDspot Value GU10	4.9	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
333	Philips	Master LEDspot MV GU10	5.0	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
334	Prime K R	4" (DL-PRIME-K-4-R15-840-45-SD)	15.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
335	Prime K R	6" (DL-PRIME-K-6-R20-840-75-D)	20.0	Internal	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 36
336	Prime K R	8" (DL-PRIME-K-8-R20-840-90-D)	20.0	Internal	Trailing Edge	1 - 5	1 - 10	1 - 20	1 - 36
337	Prime K R	8" (DL-PRIME-K-8-R30-840-90-D)	30.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 10	1 - 18
338	Radiant	LED 140 GU10	5.0	Internal	Trailing Edge	1 - 18	1 - 34	1 - 66	1 - 116
339	Radiant	LED 121 GU10	7.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
340	Radiant	LED 122 GU10	7.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
341	Radiant	LED 025	25.0	Radiant 700mA driver	Trailing Edge	1 - 2	1 - 4	1 - 8	1 - 13

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
342	Radiant	LED 032	32.0	Radiant D700040NT	Trailing Edge	1 - 3	1 - 5	1 - 10	1 - 18
343	Radiant	LED076 GU10 6.5W	6.5	Internal	Trailing Edge	1 - 6	1 - 11	1 - 23	1 - 41
344	Radiant	GU10 6.5W	6.5	Internal	Trailing Edge	1 - 5	1 - 9	1 - 18	1 - 33
345	Radiant	GU10	5.0	Internal	Trailing Edge	1 - 16	1 - 31	1 - 60	1 - 107
346	Radiant	GU10 8W Sharp	8.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 45	1 - 80
347	Radiant	5.4W Downlighter LDL001	5.4	Radiant 350mA driver	Trailing Edge	1 - 12	1 - 23	1 - 45	1 - 81
348	Radiant	9.7W Downlighter LDL002	9.7	Radiant 350mA driver	Trailing Edge	1 - 6	1 - 11	1 - 23	1 - 41
349	Radiant	23W Downlighter LDL025	23.0	Radiant 700mA driver	Trailing Edge	1 - 2	1 - 4	1 - 8	1 - 13
350	Radiant	23W Downlighter LDL009	23.0	Radiant 700mA driver	Trailing Edge	1 - 2	1 - 4	1 - 8	1 - 13
351	Radium	RaLED PAR16 50 (431 19056)	4.6	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 93
352	Radium	RL-A60 DIM	10.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 19	1 - 34
353	Regent Lighting	Perox RS10W- 500mA	10.0	Lumotech Minidim 12VA	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 47
354	Regent Lighting	Module 25W	25.0	Tridonic LCBI 25W	Trailing Edge	1 - 4	1 - 7	1 - 15	1 - 26
355	Renesola	GU10 (RG10D006AY03)	6.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 44
356	Renesola	Candle (RCD007AE01)	6.5	Internal	Trailing Edge	1 - 6	1 - 11	1 - 23	1 - 41
357	Renesola	Bulb A60 (RA60D009AE01)	9.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 54
358	Robus	RTA9P230	9.2	Internal	Trailing Edge	1 - 21	1 - 40	1 - 77	1 - 136
359	Robus	9WDLCCCT3 *	9.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 35	1 - 62
360	Robus	RF7LEDDWW	9.0	Robus R10LED200DB	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 53
361	Robus	Taylor 3CCT	9.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 34	1 - 61
362	SAA	SP77 GU10	8.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
363	SAA	SP91 GU10	6.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 45	1 - 80
364	SAA	SP95 GU10	9.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 11	1 - 19
365	Samsung	SI-M8V073BD1EU PAR16	6.7	Internal	Trailing Edge	1 - 4	1 - 8	1 - 17	1 - 29
366	Samsung	SI-M8W0773BD1EU PAR16	6.7	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
367	Samsung	SI-M8V093BD1EU PAR16	7.7	Internal	Trailing Edge	1 - 4	1 - 8	1 - 16	1 - 28
368	Seoul Semi	Acrich AC3-2 *	5.0	COB	Trailing Edge	1 - 21	1 - 40	1 - 77	1 - 136
369	Schiefer Lighting	LF023841502 E14 Filament 140lm	1.5	Internal	Trailing Edge	1 - 75	1 - 144	1 - 277	1 - 492
370	Schiefer Lighting	LF023840302 E14 Filament 320lm	4.0	Internal	Trailing Edge	1 - 26	1 - 50	1 - 96	1 - 170

### Shuttle Universal dimmers (Live In and Load Out, No Neutral required )

NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
371	Schiefer Lighting	LF023830302 E14 Filament 320lm	4.0	Internal	Trailing Edge	1 - 26	1 - 50	1 - 96	1 - 170
372	Schiefer Lighting	LF023821502 E27 Filament 150lm	1.5	Internal	Trailing Edge	1 - 75	1 - 144	1 - 277	1 - 492
373	Schiefer Lighting	L023871302 E27 Filament 320lm	4.0	Internal	Trailing Edge	1 - 26	1 - 50	1 - 96	1 - 170
374	Schiefer Lighting	LF023870509 E27 Filament 140lm	5.5	Internal	Trailing Edge	1 - 18	1 - 34	1 - 65	1 - 116
375	Schiefer Lighting	L023810302 E27 Filament 320lm	4.0	Internal	Trailing Edge	1 - 24	1 - 46	1 - 90	1 - 159
376	Schiefer Lighting	LF023880302 E27 Filament 320lm	4.0	Internal	Trailing Edge	1 - 24	1 - 46	1 - 90	1 - 159
377	Spazio Lighting	GU10 (LA 410540180902)	5.0	Internal	Trailing Edge	1 - 3	1 - 5	1 - 10	1 - 18
378	Spazio Lighting	GU10 (LA 4205903640)	5.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 45
379	Spazio Lighting	GU10 (LA 4207983627) 2700K	7.5	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
380	Spazio Lighting	GU10 (LA 4207983640) 4000K	7.5	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
381	Spazio Lighting	GU10 LED BULB	5.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
382	Spazio Lighting	GU10 410/40100702	7.0	Internal	Trailing Edge	1 - 10	1 - 19	1 - 39	1 - 69
383	Spazio Lighting	GU10 LA 410730200702	7.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 46	1 - 81
384	Spazio Lighting	GU10 (LA 42059027) SMD CRI80	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
385	Spazio Lighting	GU10 (LA 410530191102) SMD CRI80	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
386	Spazio Lighting	GU10 (LA 410540191102) SMD CRI80	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
387	Spazio Lighting	GU10 (LA 410560191102) SMD CRI80	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
388	Spazio Lighting	GU10 (LA 42059040) SMD CRI90	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
389	Spazio Lighting	GU10 (LA 4205903627) 2700K CRI90	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
390	Spazio Lighting	GU10 (LA 4205903630) 3000K CRI90	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
391	Spazio Lighting	GU10 (LA 4205903640) 4000K CRI90	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
392	Spazio Lighting	GU10 (LA 42059065)	5.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
393	Spazio Lighting	GU10 (LA 42059032) SMD CRI90	5.5	Internal	Trailing Edge	1 - 14	1 - 27	1 - 54	1 - 95
394	Spazio Lighting	TCI LD0091A (900mA x 4)	31.0	Tridonic LCBI 25W	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 21
395	Spazio Lighting	LED Panel lamp PR225A	18.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 19	1 - 34
396	Spazio Lighting	2478 Round Tilt D/L	15.0	Spazio 7317.350.18.D	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 43
397	Sunlit Technologies	LED GU10 (#20436) Cool White	5.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 54
398	Sunlit Technologies	LED GU10 (#20429) Warm White	5.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 54
399	Sunlit Technologies	LED GU10	7.0	Internal	Trailing Edge	1 - 16	1 - 30	1 - 59	1 - 105

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
400	Sunlit Technologies	LED A60 (#20207) Cool White	10.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 45
401	Sunlit Technologies	LED A60 (#20214) Warm White	10.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 45
402	Sunseon	T5 Dimmable LED Tube 1150mm	21.0	Sunseon	Trailing Edge	1 - 8	1 - 15	1 - 31	1 - 54
403	Sylvania	RefLED MR16 Eco (non dimmable)	6.5	External **	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 37
404	Sylvania	RefLED+ ES50	6.8	Internal	Trailing Edge	1 - 6	1 - 11	1 - 22	1 - 39
405	Sylvania	RefLED+ ES50 V2	5.5	Internal	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 53
406	Sylvania	RefLED Superia ES50 V2.1	6.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 53
407	Sylvania	RefLED+ ES50 GU10 Dim 830	5.5	Internal	Trailing Edge	1 - 11	1 - 20	1 - 39	1 - 70
408	Sylvania	RefLED+ ES50 GU10 Dim 830 40d SL	6.5	Internal	Trailing Edge	1 - 4	1 - 7	1 - 15	1 - 27
409	Sylvania	RefLED ES50	5.5	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 90
410	Sylvania	RefLED ES50 Hi-Spot GU10	6.5	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 92
411	Synerji ***	GU10	5.0	Internal	Trailing Edge	1 - 6	1 - 12	1 - 24	1 - 42
412	Synerji	GU10 (0517)	5.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 73
413	Synerji	GU10	6.5	Internal	Trailing Edge	1 - 13	1 - 24	1 - 47	1 - 83
414	Synerji	GU10	7.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 21	1 - 38
415	Synerji	Candle B22	5.5	Internal	Trailing Edge	1 - 16	1 - 30	1 - 59	1 - 105
416	Synerji	GLS Lamp E27	10.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 23	1 - 40
417	Swiss LED	GU10 SWISL GU55ED65	5.5	Internal	Trailing Edge	1 - 7	1 - 13	1 - 27	1 - 48
418	Swiss LED	GU10 E390SGNCA	5.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 44
419	Swiss LED	Bulb S2E0210D	10.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 35	1 - 63
420	Venture Lighting	VLED DOM026	6.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
421	Venture Lighting	SPL070	12.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 44
422	Verbatim	#52017 PAR38 (E27)	18.0	Internal	Trailing Edge	1 - 4	1 - 8	1 - 16	1 - 29
423	Verbatim	#52019 Classic A E27	9.0	Internal	Trailing Edge	1 - 9	1 - 17	1 - 35	1 - 62
424	Verbatim	#52028 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
425	Verbatim	#52034 E27	20.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 19	1 - 33
426	Verbatim	#52040 GU10	6.0	Internal	Trailing Edge	1 - 14	1 - 26	1 - 51	1 - 91
427	Verbatim	#52041 GU10	8.5	Internal	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
428	Verbatim	#52045 GU10	6.5	Internal	Trailing Edge	1 - 13	1 - 25	1 - 50	1 - 89

Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
429	Verbatim	#52047 Classic B E14	3.7	Internal	Trailing Edge	1 - 17	1 - 32	1 - 62	1 - 111
430	Verbatim	#52049 GU10	7.0	Internal	Trailing Edge	1 - 16	1 - 31	1 - 60	1 - 106
431	Verbatim	#52200 GU10	7.0	Internal	Trailing Edge	1 - 12	1 - 23	1 - 47	1 - 83
432	Verbatim	#52205 AR111 G53	15.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 19	1 - 33
433	Verbatim	#52206 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 53
434	Verbatim	#52207 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
435	Verbatim	#52208 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 53
436	Verbatim	#52209 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
437	Verbatim	#52210 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 9	1 - 17	1 - 35	1 - 62
438	Verbatim	#52211 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
439	Verbatim	#52212 MR16	3.5	Verbatim LW70	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
440	Verbatim	#52214 GU10	7.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 50	1 - 89
441	Verbatim	#52217 GU10	7.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
442	Verbatim	#52220 Classic A E27	7.5	Internal	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 65
443	Verbatim	#52224 MR16	6.5	Verbatim LW70	Trailing Edge	1 - 8	1 - 15	1 - 30	1 - 53
444	Verbatim	#52225 E27	7.7	Internal	Trailing Edge	1 - 10	1 - 19	1 - 36	1 - 64
445	Verbatim	#52230 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
446	Verbatim	#52231 MR16	7.0	Verbatim LW70	Trailing Edge	1 - 10	1 - 19	1 - 37	1 - 66
447	Verbatim	#52235 GU10	7.3	Internal	Trailing Edge	1 - 16	1 - 31	1 - 60	1 - 106
448	Verbatim	#52310 GU10	8.5	Internal	Trailing Edge	1 - 9	1 - 17	1 - 35	1 - 62
449	Verbatim	#52308 GU10	6.0	Internal	Trailing Edge	1 - 7	1 - 13	1 - 27	1 - 47
450	Verbatim	#52322 E27 Globe	8.8	Internal	Trailing Edge	1 - 7	1 - 13	1 - 26	1 - 46
451	Verbatim	#52336 E27 Globe	9.5	Internal	Trailing Edge	1 - 8	1 - 16	1 - 32	1 - 56
452	Verbatim	#52611 G95 Large Globe	10.0	Internal	Trailing Edge	1 - 6	1 - 11	1 - 22	1 - 39
453	Verbatim	#52350 GU10	8.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 42	1 - 74
454	Verbatim	#52343 AR111	10.0	Verbatim #52900 (70W)	Trailing Edge	1 - 7	1 - 13	1 - 25	1 - 44
455	Verbatim	#65110 GU10	6.5	Internal	Trailing Edge	1 - 13	1 - 25	1 - 49	1 - 87
456	Verbatim	#65421 GU10 Warm-dim	7.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 50	1 - 89
457	Verbatim	AR111 ("non-dimmable")	14.5	Internal	Trailing Edge	1 - 3	1 - 6	1 - 12	1 - 22



Shuttle Universal dimmers (Live In and Load Out, No Neutral required )									
NO	LED BRAND	MODEL	RATING (W)	DRIVER	DIMMING MODE (recommended)	MAXIMUM NUMBER OF LEDs			
						125W	250W	500W	800W
458	Vossloh-Schwabe	GU10 #556799	6.0	Internal	Trailing Edge	1 - 5	1 - 9	1 - 19	1 - 34
459	Vossloh-Schwabe	GU10 #553220	7.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 50	1 - 89
460	Vossloh-Schwabe	GU10 #553221	7.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 50	1 - 89
461	Vossloh-Schwabe	GU10 #541126	7.0	Internal	Trailing Edge	1 - 13	1 - 25	1 - 50	1 - 89
462	Vossloh-Schwabe	LED COB Module #559774	10.0	Internal	Trailing Edge	1 - 11	1 - 21	1 - 41	1 - 73
463	Vossloh-Schwabe	LED COB Module #559779	15.0	Internal	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 52
464	Vossloh-Schwabe	LED COB Module #559784	20.0	Internal	Trailing Edge	1 - 5	1 - 10	1 - 21	1 - 36
465	Vossloh-Schwabe	Pro Series #550880	12.0	External Integrated	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 51
466	Vossloh-Schwabe	Pro Series #550882	12.0	External Integrated	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 51
467	Vossloh-Schwabe	Pro Series #550884	12.0	External Integrated	Trailing Edge	1 - 8	1 - 15	1 - 29	1 - 51
468	Vossloh-Schwabe	Pro Series #550885	18.0	External Integrated	Trailing Edge	1 - 4	1 - 8	1 - 17	1 - 30
469	Vossloh-Schwabe	Pro Series #550886	18.0	External Integrated	Trailing Edge	1 - 4	1 - 8	1 - 17	1 - 30
470	Vossloh-Schwabe	Pro Series #550887	18.0	External Integrated	Trailing Edge	1 - 4	1 - 8	1 - 17	1 - 30
471	Uniontech SA	GU10	5.0	Internal	Trailing Edge	1 - 14	1 - 27	1 - 52	1 - 92
472	Generic	230VAC LED Striplight 60 LED/m *	8.25/m	Rectified Mains	Trailing Edge	1 - 16	1 - 31	1 - 60	1 - 107

## **NOTES**

- 1 All measurements are conducted at 230VAC 50Hz
- 2 All low voltage lamp loads INCLUDE electronic transformer or driver losses.
- 3 Flicker at low light intensity is sometimes unavoidable – please set the dimmer minimum dim to avoid flicker (refer to relevant dimmer data sheet)
- 4 Some LED's dim to a completely off state – please set the dimmer minimum level to avoid this condition (refer to relevant dimmer data sheet)
- 5 Some Low voltage lamps and transformer combinations might exhibit flicker at various light intensities or might not turn on – please set the dimmer in “MR16 compatibility mode”
- 6 Maximum Load applies only when:
  - A - Supply voltage does not exceed 230VAC
  - B - Dimmer is well ventilated (ambient temperature around the dimmer is below 35°C)
  - C - Only one dimmer per wallbox

*\* LED stays slightly on when dimmer is off – please use a capacitive dummy load as per Shuttle recommendation to avoid this condition (only applies to pre- May 2018 production Shuttle dimmers)*

*\*\* Please refer to supplier for list of compatible and approved external transformers or drivers as well as load ratings thereof*

*\*\*\* Use the “Synerji mode” in the Synerji OEM branded dimmers for ideal dimming range*

### **Shuttle Lighting Control Systems (Pty) Ltd - Lamp/driver dimmer compatibility testing Disclaimer**

Compatibility tests are conducted by Shuttle as guidance, without responsibility for the performance of the lamps and drivers.

The results shown are based on measurements in our test laboratory. Field results may differ from test results depending on conditions at the application site.

Results may vary due to variability in component choices and manufacturing processes by lamp and driver manufacturers.

Please refer to the lamp and driver manufacturers website for specifications, installation and operating instructions