





ProSite LED Floodlight

Technical Specification Sheet - INMETRO

MARCH 2024

ProSite LED Floodlight - INMETRO

F1 Models

Dialight

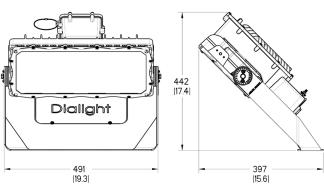




Certifications & Ratings

- 10 year warranty
- INMETRO Zone 2, 21 & 22
- Ex ec IIC T4 Gc
 - Ex tb IIIC T110°C Db
 - BRA 22.GE0026X
- IP66/67
- IK08 Glass lens
- L70 > 150,000 hours @ 25°C ambient

Angled Bracket



Dimensions in mm [inches]	
Additional dimensional drawings on pages 12	-13

Fixture weight:	10.9 - 13.6 kg
Shipping weight:	~14.5 kg
EPA (m²):	0.186
Mounting: (all with 7.5° tilt adjustment)	316 stainless steel straight bracket 316 stainless steel angled bracket Slipfitter bracket
Cable entry:	2 x M25
Electrical Specificatio	ons:
Operating voltage:	120-277 VAC / 120-250 VDC 347-415-480 VAC
Operating temp:	-40°C to +65°C
EMC:	CISPR 15 Flicker: IEC 61000-3-3 Immunity requirements for lighting: IEC 61547 Harmonics: IEC 61000-3-2 Class C
Transient protection:	IEC 61000-4-5. 6kV line-line and line-ground.
THD:	< 20%
Power Factor:	> 0.9
Dimming:	DALI 2.0 compatible/0-10 VDC
Construction:	
Housing:	A360 Die-cast aluminum
Hardware:	316 stainless steel
Finish:	Superior epoxy and polyester dual coat finish
Lens:	Glass
Photometric Informati	ion:
CRI:	70 (80 optional)
CCT:	5000K (cool white) 4000K (neutral white) 2200K (warm white) 2700K (warm white) - 80 CRI Amber
Beam pattern:	Medium - 55° Wide - 125° Very Wide - 131° x 108° Asymmetric - Forward Distribution

All values typical unless otherwise stated (tolerance +/- 10%)

WARNING - INSTALLATION & SECONDARY RETENTION. Use of any Dialight products without proper installation (including secondary retention / netting) and periodic inspections could cause severe injury or death. Dialight recommends that all installations should use secondary retention / netting (appropriate to the installation environment) where applicable. It is the exclusive responsibility of the contractor, installer and/or end-user to: (a) determine the suitability of the product for its intended application; and, (b) ensure that the product is safely installed (with secondary retention / netting where appropriate) and in compliance with all applicable laws and regulations. To the extent permissible under applicable laws, Dialight disclaims all liability for personal injury and/or other damage resulting from any dislodgment or other dislocation of its products.

www.dialight.com



Ordering Information - F1

ProSite LED Floodlight - INMETRO





	Hazardous - INMETRO								
Part Number	Imber Fixture Lumens Wattage Im/W Voltage CCT Lens		Lens	Beam Distribution					
				12,000lm Models	6				
F1L-77B2-BDEN-VGN	12,500	81	154	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Very Wide (131° x 108°)		
F1L-76B2-BDEN-VGN	12,500	81	154	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Wide (125°)		
F1L-74B2-BDEN-VGN	12,500	81	154	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Medium (56°)		
F1L-7FB2-BDEN-VGN	12,200	81	151	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric		
F1L-77L2-BDEN-VGN	12,500	81	154	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Very Wide (131° x 108°)		
F1L-76L2-BDEN-VGN	12,500	81	154	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Wide (125°)		
F1L-74L2-BDEN-VGN	12,500	81	154	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Medium (56°)		
F1L-7FL2-BDEN-VGN	12,200	81	151	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric		
				18,000lm Models	6				
F1L-77B2-CDEN-VGN	18,000	124	145	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Very Wide (131° x 108°)		
F1L-76B2-CDEN-VGN	18,000	124	145	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Wide (125°)		
F1L-74B2-CDEN-VGN	18,000	124	145	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Medium (56°)		
F1L-7FB2-CDEN-VGN	17,700	124	143	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric		
F1L-77L2-CDEN-VGN	18,000	124	145	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Very Wide (131° x 108°)		
F1L-76L2-CDEN-VGN	18,000	124	145	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Wide (125°)		
F1L-74L2-CDEN-VGN	18,000	124	145	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Medium (56°)		
F1L-7FL2-CDEN-VGN	17,700	124	143	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric		
				30,000lm Models	5				
F1L-77B2-FDEN-VGN	29,900	234	128	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Very Wide (131° x 108°)		
F1L-76B2-FDEN-VGN	29,900	234	128	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Wide (125°)		
F1L-74B2-FDEN-VGN	29,900	234	128	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Medium (56°)		
F1L-7FB2-FDEN-VGN	29,200	234	125	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric		
F1L-77L2-FDEN-VGN	29,900	234	128	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Very Wide (131° x 108°)		
F1L-76L2-FDEN-VGN	29,900	234	128	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Wide (125°)		
F1L-74L2-FDEN-VGN	29,900	234	128	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Medium (56°)		
F1L-7FL2-FDEN-VGN	29,200	234	125	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric		

All values typical unless otherwise stated (tolerance +/- 10%). CCT - For 2700k change 6th character to 'W'. For 2200k change 6th character to 'U'. Refer to lumen table on page 6 for accurate values. Mounting Bracket - Angled Bracket supplied as standard - for straight bracket change 10th character to 'F'.

ProSite LED Floodlight - INMETRO

F2 Models

Dialight

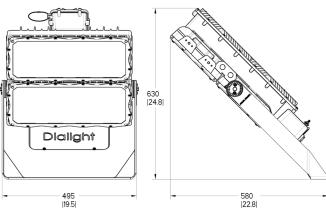




Certifications & Ratings

- 10 year warranty
- INMETRO Zone 2, 21 & 22
- Ex ec IIC T4 Gc
 - Ex tb IIIC T110°C Db
 - BRA 22.GE0026X
- IP66/67
- IK08 Glass lens
- L70 > 150,000 hours @ 25°C ambient

Angled Bracket



Dimensions in mm [inches] Additional dimensional drawings on pages 12-13

Mechanical Informat	ion:
Fixture weight:	19.5 - 24.5 kg
Shipping weight:	~25.5 kg
EPA (m ²):	0.310
Mounting: (all with 7.5° tilt adjustment)	316 stainless steel straight bracket 316 stainless steel angled bracket
Cable entry:	2 x M25
Electrical Specification	ons:
Operating voltage:	120-277 VAC / 120-250 VDC 347-415-480 VAC
Operating temp:	-40°C to +65°C -40°C to +55°C - 60klm
EMC:	CISPR 15 Flicker: IEC 61000-3-3 Immunity requirements for lighting: IEC 61547 Harmonics: IEC 61000-3-2 Class C
Transient protection:	IEC 61000-4-5. 6kV line-line and line-ground.
THD:	< 20%
Power Factor:	> 0.9
Dimming:	DALI 2.0 compatible/0-10 VDC
Construction:	
Housing:	A360 Die-cast aluminum
Hardware:	316 stainless steel
Finish:	Superior epoxy and polyester dual coat finish
Lens:	Glass
Photometric Informat	ion:
CRI:	70 (80 optional)
CCT:	5000K (cool white) 4000K (neutral white) 2200K (warm white) 2700K (warm white) - 80 CRI Amber
Beam pattern:	Medium - 55° Wide - 125° Very Wide - 131° x 108° Asymmetric - Forward Distribution
IES files:	Available at www.dialight.com
All values typical unless oth	erwise stated (tolerance +/- 10%)

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Ordering Information - F2

ProSite LED Floodlight - INMETRO





Hazardous - INMETRO									
Part Number	Fixture Lumens	Wattage	lm/W	Voltage CCT		Lens	Beam Distribution		
60,000lm Models									
F2L-77B2-NDEN-VGN	61,400	484	127	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Very Wide (131° x 108°)		
F2L-76B2-NDEN-VGN	61,400	484	127	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Wide (125°)		
F2L-74B2-NDEN-VGN	61,400	484	127	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Medium (56°)		
F2L-7FB2-NDEN-VGN	60,100	484	124	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric		
F2L-77L2-NDEN-VGN	61,400	484	127	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Very Wide (131° x 108°)		
F2L-76L2-NDEN-VGN	61,400	484	127	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Wide (125°)		
F2L-74L2-NDEN-VGN	61,400	484	127	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Medium (56°)		
F2L-7FL2-NDEN-VGN	60,100	484	124	120-277VAC / 120-250VDC	4000k (neutral white)	Glass	Asymmetric		

All values typical unless otherwise stated (tolerance +/- 10%). CCT - For 2700k change 6th character to 'W'. For 2200k change 6th character to 'U'. Refer to lumen table on page 6 for accurate values. Mounting Bracket - Angled Bracket supplied as standard - for straight bracket change 10th character to 'F'.



Lumen Tables

Lumen Wattage		Wattage	Optic		Glass Lens			
Output Family	(120-277 VAC)	(347-480 VAC)	Ορίο	5000K	4000K	2700K	2200K	
			Medium (NEMA 4)	12,500	12,500	9,500	9,700	
10.000	81	84	Wide (NEMA 6)	12,500	12,500	9,500	9,700	
12,000	01	04	Very Wide (NEMA 7x6)	12,500	12,500	9,500	9,700	
			Asymmetric	11,600	11,600	8,600	8,800	
			Medium (NEMA 4)	18,000	18,000	13,800	14,000	
10,000	101	100	Wide (NEMA 6)	18,000	18,000	13,800	14,000	
18,000	124	128	Very Wide (NEMA 7x6)	18,000	18,000	13,800	14,000	
			Asymmetric	16,700	16,700	12,400	12,700	
			Medium (NEMA 4)	23,600	23,600	18,000	18,400	
04.000	175	170	Wide (NEMA 6)	23,600	23,600	18,000	18,400	
24,000	175	179	Very Wide (NEMA 7x6)	23,600	23,600	18,000	18,400	
			Asymmetric	21,900	21,900	16,300	16,600	
			Medium (NEMA 4)	29,900	29,900	22,800	23,200	
F1	004	237	Wide (NEMA 6)	29,900	29,900	22,800	23,200	
30,000	234		Very Wide (NEMA 7x6)	29,900	29,900	22,800	23,200	
			Asymmetric	27,700	27,700	20,500	21,000	
			Medium (NEMA 4)	30,200	30,200	23,000	23,500	
F2		000	Wide (NEMA 6)	30,200	30,200	23,000	23,500	
30,000	200	206	Very Wide (NEMA 7x6)	30,200	30,200	23,000	23,500	
			Asymmetric	28,000	28,000	20,800	21,300	
			Medium (NEMA 4)	35,400	35,400	27,000	27,600	
00.000	004	0.44	Wide (NEMA 6)	35,400	35,400	27,000	27,600	
36,000	234	241	Very Wide (NEMA 7x6)	35,400	35,400	27,000	27,600	
			Asymmetric	32,800	32,800	24,400	24,900	
			Medium (NEMA 4)	48,200	48,200	36,700	37,500	
10.577			Wide (NEMA 6)	48,200	48,200	36,700	37,500	
48,000	346	357	Very Wide (NEMA 7x6)	48,200	48,200	36,700	37,500	
			Asymmetric	44,600	44,600	33,200	33,900	
			Medium (NEMA 4)	61,400	61,400	46,800	47,800	
00.000	40.4	100	Wide (NEMA 6)	61,400	61,400	46,800	47,800	
60,000	484	499	Very Wide (NEMA 7x6)	61,400	61,400	46,800	47,800	
			Asymmetric	56,900	56,900	42,300	43,200	





Inrush Current

F1 Models								
VAC	120	240	347	415	480			
Peak inrush current (A)	7.7	15.4	4.1	4.9	5.7			
Duration, T50 (ms)	1.5	1.5	1.5	1.5	1.5			
	F2 I	Models (30 - 36	klm)					
Peak inrush current (A)	7.7	15.4	4.1	4.9	5.7			
Duration, T50 (ms)	1.5	1.5	1.5	1.5	1.5			
	F2 I	Models (48 - 65	klm)					
Peak inrush current (A)	15.4	30.8	8.2	9.8	11.4			
Duration, T50 (ms)	1.5	1.5	1.5	1.5	1.5			



Maximum per Circuit Breaker

	120 VA	C	
Lumen Output	10 Amp	16 Amp	20 Amp
12,000	9	14	17
18,000	6	9	11
24,000	4	6	8
30,000 F1	3	5	6
30,000F2	4	6	7
36,000	3	5	6
48,000	2	3	4
60,000	1	2	3
12,000 Amber	3	5	6
24,000 Amber	2	2	3

	240 VAC	
10 Amp	16 Amp	20 Amp
17	28	35
11	18	23
8	13	16
6	10	12
7	11	14
6	10	12
4	7	8
3	5	6
6	10	13
3	5	6

277 VAC							
Lumen Output	10 Amp	16 Amp	20 Amp				
12,000	20	32	40				
18,000	13	21	26				
24,000	9	15	19				
30,000 F1	7	11	14				
30,000F2	8	13	16				
36,000	7	11	14				
48,000	5	8	9				
60,000	3	5	7				
12,000 Amber	7	12	14				
24,000 Amber	4	6	7				

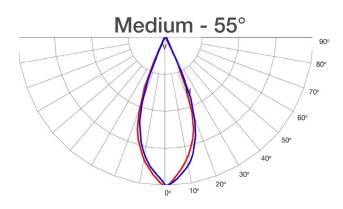
	415 VAC							
10 Amp	16 Amp	20 Amp						
29	47	58						
19	31	38						
14	22	27						
10	17	21						
12	19	24						
10	16	20						
7	11	14						
5	8	10						
11	17	21						
5	8	10						

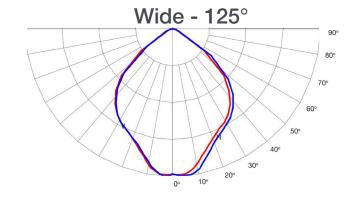
Dialight recommends using B or C type breakers.

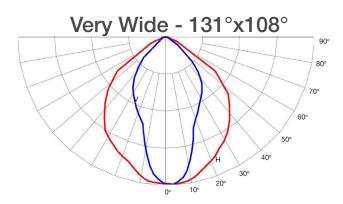
These tables are based on steady-state input current and nominal breaker current ratings @ 80% derating.



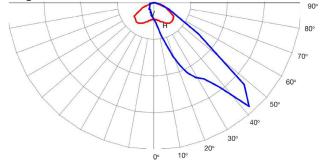
Beam Distribution







Asymmetric - Forward Distribution





Lumen Maintenance Factor - F1

	F1 Floodlight 12k Im (Hours)									
Ambient	0	15000	30000	45000	60000	75000	90000	100000	150000	
25°C	100%	98%	97%	96%	96%	95%	94%	93%	91%	
30°C	99%	97%	96%	95%	95%	94%	93%	92%	90%	
35°C	98%	96%	96%	95%	95%	94%	93%	92%	90%	
40°C	98%	96%	95%	94%	94%	93%	92%	91%	89%	
45°C	97%	95%	94%	93%	93%	92%	91%	90%	88%	
50°C	96%	94%	94%	93%	93%	92%	91%	90%	88%	
55°C	96%	94%	93%	92%	91%	90%	90%	89%	87%	
60°C	95%	93%	92%	91%	91%	90%	89%	89%	86%	
65°C	94%	92%	92%	91%	90%	89%	88%	88%	85%	

F1 Floodlight 18k Im (Hours)										
Ambient	0	15000	30000	45000	60000	75000	90000	100000	150000	
25°C	100%	98%	97%	96%	96%	95%	94%	93%	91%	
30°C	99%	97%	96%	95%	95%	94%	93%	92%	90%	
35°C	98%	96%	96%	95%	95%	94%	93%	92%	90%	
40°C	98%	96%	95%	94%	94%	93%	92%	91%	89%	
45°C	97%	95%	94%	93%	93%	92%	91%	90%	88%	
50°C	96%	94%	94%	93%	93%	92%	91%	90%	88%	
55°C	96%	94%	93%	92%	91%	90%	90%	89%	87%	
60°C	95%	93%	92%	91%	91%	90%	89%	89%	86%	
65°C	94%	92%	92%	91%	90%	89%	88%	88%	85%	

F1 Floodlight 30k Im (Hours)										
Ambient	0	15000	30000	45000	60000	75000	90000	100000	150000	
25°C	100%	98%	95%	93%	91%	89%	87%	85%	79%	
30°C	99%	97%	94%	92%	90%	88%	86%	84%	78%	
35°C	98%	96%	93%	91%	89%	87%	85%	83%	77%	
40°C	97%	94%	92%	90%	88%	85%	83%	82%	76%	
45°C	96%	93%	91%	88%	86%	84%	82%	81%	74%	
50°C	94%	92%	90%	87%	85%	83%	81%	79%	72%	
55°C	93%	91%	88%	86%	84%	81%	79%	78%	71%	
60°C	92%	90%	87%	85%	82%	80%	78%	76%	70%	
65°C	91%	88%	86%	84%	81%	79%	77%	75%	68%	



Lumen Maintenance Factor - F2

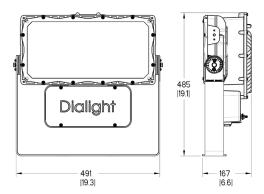
F2 Floodlight 36k Im (Hours)										
Ambient	0	15000	30000	45000	60000	75000	90000	100000	150000	
25°C	100%	98%	97%	96%	96%	95%	94%	93%	91%	
30°C	99%	97%	96%	96%	95%	94%	93%	93%	90%	
35°C	98%	97%	96%	95%	94%	93%	92%	92%	89%	
40°C	98%	96%	95%	94%	93%	93%	92%	91%	89%	
45°C	97%	95%	94%	94%	93%	92%	91%	91%	88%	
50°C	96%	94%	94%	93%	92%	91%	90%	90%	87%	
55°C	96%	94%	93%	92%	91%	90%	90%	89%	87%	
60°C	95%	93%	92%	91%	91%	90%	89%	88%	86%	
65°C	94%	92%	92%	91%	90%	89%	88%	88%	85%	

F2 Floodlight 60k Im (Hours)										
Ambient	0	15000	30000	45000	60000	75000	90000	100000	150000	
25°C	100%	98%	95%	93%	91%	89%	87%	85%	79%	
30°C	99%	96%	94%	92%	90%	88%	86%	84%	78%	
35°C	98%	95%	93%	91%	88%	86%	84%	83%	76%	
40°C	96%	94%	92%	89%	87%	85%	83%	81%	75%	
45°C	95%	93%	90%	88%	86%	83%	81%	80%	73%	
50°C	94%	91%	89%	87%	84%	82%	80%	78%	72%	
55°C	93%	90%	88%	85%	83%	80%	78%	77%	70%	

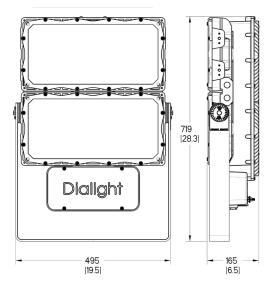


Dimensional Drawings

F1 Straight Bracket



F2 Straight Bracket

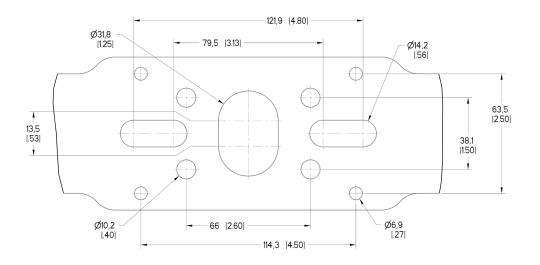


Dimensions in mm [inches]

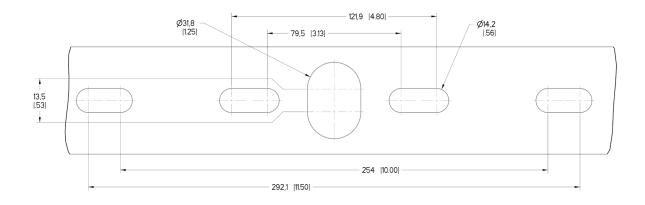


Dimensional Drawings

F1 Mounting Bracket



F2 Mounting Bracket

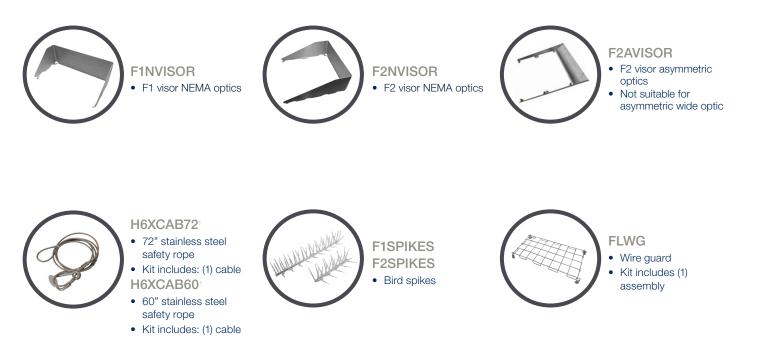


Dimensions in mm [inches]

DISCLAIMER. All product information provided is, to the best of Dialight's knowledge, accurate as of the date of publication. When ordering, refer to <u>www.dialight.com</u> for current versions of: (a) relevant product documentation (including the relevant product data sheets); (b) Dialight rems and conditions of sale; and, (c) the relevant product warranty. To the extent that any contract is deemed formed between Dialight routes are products and/or an end-user, versions of documents available at <u>www.dialight.com</u> as at the date of sale shall be the versions incorporated therein. In the event of any discrepancy between this document or information provided at <u>www.dialight.com</u>, the latter shall prevail.

www.dialight.com

Accessories



¹F1 models require 1 cable per unit. F2 models require 2 cables per unit.

North American HQ

1501 Route 34 South Farmingdale, NJ 07727 Tel: 732-919-3119 Fax: 732-751-5778 info@dialight.com

Dialight Europe Ltd

Highdown House, Yeoman Way, Worthing, England BN99 3HH Tel: +44 (0) 203 058 3540 Customer Service: +44 (0) 163 866 6541 sales-emea@dialight.com

Middle East

Level 23 – Boulevard Plaza Tower 2 Emaar Boulevard, Dubai, U.A.E. P.O. Box 124342 Tel: +971 (4) 409-6962 Fax: +971 (4) 409-6850

Australia

108 Howe Street Osborne Park, WA 6017 Tel: +61 (0) 8 9244 7600 Fax: +61 (0) 8 9244 7601 info@dialight.com.au

Southeast Asia

56 Kallang Pudding Road #09 – 08 HH@Kallang Singapore 349328 Tel: +65 6578 7271 Fax: +65 6578 7150 enquiry@dialight.com.sg

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