



ProSite LED High Mast Technical Specification Sheet



ProSite LED High Mast - UL / CSA

F2 Models

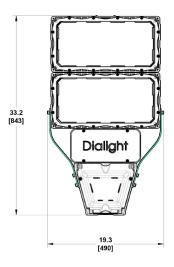


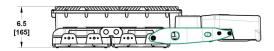


Patent US 11,686,438 B1

Certifications & Ratings

- 10 year warranty
- UL 1598/A, CSA 22.2, NOM ANC2101A00007376-(1-3)
- IP66/67, NEMA 4X
- L70 > 100,000 hours @ 122°F (50°C) ambient
- DLC/DLC Premium selected models
- Vibration to ANSI C136.31 & CALTRANS test 611





Dimensions in inches [mm]

Mechanical Information:

Fixture weight: 47-58 lbs
Shipping weight: ~60 lbs

Mounting: 4 bolt mast arm bracket with +/-5° of

adjustment. Suitable for 1.66" - 2.375"

OD mounting pipe

EPA (Sq. ft): 1.50

Cable entry: 1 x 3/4" NPS

Electrical Specifications:

Operating voltage: 120-277VAC / 120-250VDC

347-480 VAC

Operating temp: $-40^{\circ}\text{F to } +149^{\circ}\text{F } (-40^{\circ}\text{C to } +65^{\circ}\text{C})$

-40°F to +131°F (-40°C to +55°C) - 60klm

EMC: Emissions: FCC Title 47 CFR Part 15

Subpart B, Class A Flicker: IEC 61000-3-3

Immunity requirements for lighting:

IFC 61547

Harmonics: IEC 61000-3-2 Class C

Transient protection: 6kV/3kA

Optional: Additional surge protection module rated

for 10kA, 20kA single strike

THD: < 20%

Power Factor: > 0.9

Dimming: DALI 1.0 and 2.0 compatible / 0-10VDC

Construction:

Housing: A360 Die-cast aluminum

Hardware: 316 stainless steel

Finish: Superior epoxy and polyester

dual coat finish

Lens: Integrated PC Optic/Lens,

Optional Glass Lens Cover, PC Lens Cover

Photometric Information:

CRI: 70 (80 optional)

CCT: 5000K (cool white) 4000K (neutral white)

2200K (warm white) 2700K (warm white) - 80 CRI

Beam pattern: NEMA 4

NEMA 6 NEMA 7x6 Asymmetric Asymmetric Wide

IES files: Available at www.dialight.com

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

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ProSite LED High Mast - UL / CSA

F2 Models



Project I	nformation	Specific	cations
Part Number:			
Project:			
Fixture Type:	Date:		
Ordering Information			
F2 - U			- N
		$\overline{}$	
Product Cert. Lens	Beam CCT & Oper. Lum		Termination Finish None
Series Cert. Lens	Dist. CRI Voltage Typ	pe Dimming Options	Timon Timon
Product Series	CCT & CRI	Controls/Dimming	Termination
F2 ProSite High Mast F2 Model	B Cool White 5000K - 70 CRI	D 0-10V / DALI as standard	U 6mm² Terminal Block - Screw Down
	L Neutral White 4000K - 70 CRI	S Receptacle with Shorting Cap	V 4mm ² Terminal Block - Push Down
Out Good State	U Warm White 2200K - 70 CRI*		
Certification	W Warm White 2700K - 80 CRI*		
U UL 1598/A / CSA	*Lumen output decreases for warm white CCT options. Refer to lumen table on page 6		
	for accurate values.		
Lens		Mounting Options	Finish
N Integrated PC Optic/Lens Only	Operating Voltage	T 4 Bolt Mast Arm Bracket with	G Gray (RAL 7040)
4 PC Lens Cover	2 120-277VAC / 120-250VDC	+/-5° of Adjustment	Z Bronze (RAL 7022)
7 Glass Lens Cover	5 347-480 VAC		
*Lens option 4 and 7 is not available for asymmetric wide optic	8 120-277VAC / 120-250VDC 10kV surge		
	9 347-480 VAC		
Beam Distribution	10kV surge	Hardware	Battery
4 NEMA 4		N No Option	N No Options
6 NEMA 6		·	
7 NEMA 7x6			
F Asymmetric	Lumen Type*		
J Asymmetric Wide	H 36,000 Lumens		
*For Asymptotic boom distribution sither a DC	L 48 000 Lumens		

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N 60,000 Lumens

or Glass lens cover must be included



Ordering Information

ProSite LED High Mast - UL / CSA



	Industrial - UL 1598 / CSA											
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution					
	Lumen Output Family - 48,000lm											
F2U-N7B2-LDTN-VGN	51,000	346	147	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B2-LDTN-VGN	51,000	346	147	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B2-LDTN-VGN	51,000	346	147	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB2-LDTN-VGN	47,200	346	136	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB2-LDTN-VGN	47,400	346	137	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide					
F2U-N7B5-LDTN-VGN	51,000	357	143	347-480VAC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B5-LDTN-VGN	51,000	357	143	347-480VAC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B5-LDTN-VGN	51,000	357	143	347-480VAC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB5-LDTN-VGN	47,200	357	132	347-480VAC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB5-LDTN-VGN	47,400	357	133	347-480VAC	5000k (cool white)	Integrated PC	Asymmetric Wide					
			Lun	nen Output Family - 60,000lm								
F2U-N7B2-NDTN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B2-NDTN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B2-NDTN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB2-NDTN-VGN	60,100	484	124	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB2-NDTN-VGN	60,500	484	125	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide					
F2U-N7B5-NDTN-VGN	65,000	499	130	347-480VAC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B5-NDTN-VGN	65,000	499	130	347-480VAC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B5-NDTN-VGN	65,000	499	130	347-480VAC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB5-NDTN-VGN	60,100	499	120	347-480VAC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB5-NDTN-VGN	60,500	499	121	347-480VAC	5000k (cool white)	Integrated PC	Asymmetric Wide					

All values typical unless otherwise stated (tolerance +/- 10%). See ordering information chart for additional options.

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Ordering Information

ProSite LED High Mast - UL / CSA - 10kA Surge Protection



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		Indus	trial - UL	1598 / CSA - 10kA Surge	Protection							
Part Number	Fixture Lumens	Wattage	lm/W	Voltage	ССТ	Lens	Beam Distribution					
	Lumen Output Family - 48,000lm											
F2U-N7B8-LDTN-VGN	51,000	346	147	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B8-LDTN-VGN	51,000	346	147	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B8-LDTN-VGN	51,000	346	147	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB8-LDTN-VGN	47,200	346	136	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB8-LDTN-VGN	47,400	346	137	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide					
F2U-N7B9-LDTN-VGN	51,000	357	143	347-480VAC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B9-LDTN-VGN	51,000	357	143	347-480VAC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B9-LDTN-VGN	51,000	357	143	347-480VAC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB9-LDTN-VGN	47,200	357	132	347-480VAC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB9-LDTN-VGN	47,400	357	133	347-480VAC	5000k (cool white)	Integrated PC	Asymmetric Wide					
			Lun	nen Output Family - 60,000lm								
F2U-N7B8-NDTN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B8-NDTN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B8-NDTN-VGN	65,000	484	134	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB8-NDTN-VGN	60,100	484	124	120-277VAC / 120-250VDC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB8-NDTN-VGN	60,500	484	125	120-277VAC / 120-250VDC	5000k (cool white)	Integrated PC	Asymmetric Wide					
F2U-N7B9-NDTN-VGN	65,000	499	130	347-480VAC	5000k (cool white)	Integrated PC	NEMA 7x6					
F2U-N6B9-NDTN-VGN	65,000	499	130	347-480VAC	5000k (cool white)	Integrated PC	NEMA 6					
F2U-N4B9-NDTN-VGN	65,000	499	130	347-480VAC	5000k (cool white)	Integrated PC	NEMA 4					
F2U-7FB9-NDTN-VGN	60,100	499	120	347-480VAC	5000k (cool white)	Glass	Asymmetric					
F2U-NJB9-NDTN-VGN	60,500	499	121	347-480VAC	5000k (cool white)	Integrated PC	Asymmetric Wide					

All values typical unless otherwise stated (tolerance +/- 10%). See ordering information chart for additional options.

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Lumen Tables

Lumen	Wattage	Wattage	0.11		PC Opt	tic Only			Glass	Lens		Polycarbonate Lens						
Output Family	(120-277 VAC)	(347-480 VAC)	Optic	5000K	4000K	2700K	2200K	5000K	4000K	2700K	2200K	5000K	4000K	2700K	2200K			
			NEMA 4	37,500	37,500	29,100	29,600	35,400	35,400	27,000	27,600	33,400	33,400	24,900	25,500			
	234		NEMA 6	37,500	37,500	29,100	29,600	35,400	35,400	27,000	27,600	33,400	33,400	24,900	25,500			
36,000		241	NEMA 7x6	37,500	37,500	29,100	29,600	35,400	35,400	27,000	27,600	33,400	33,400	24,900	25,500			
			Asymmetric	-	-	-	-	32,800	32,800	24,400	24,900	30,800	30,800	22,300	22,900			
			Asymmetric Wide	34,900	34,900	26,400	27,000	-	-	-	-	-	-	-	-			
				NEMA 4	51,000	51,000	39,500	40,300	48,200	48,200	36,700	37,500	45,400	45,400	33,900	34,700		
				NEMA 6	51,000	51,000	39,500	40,300	48,200	48,200	36,700	37,500	45,400	45,400	33,900	34,700		
48,000	346	357	NEMA 7x6	51,000	51,000	39,500	40,300	48,200	48,200	36,700	37,500	45,400	45,400	33,900	34,700			
			Asymmetric	-	-	-	-	44,600	44,600	33,200	33,900	41,800	41,800	30,300	31,100			
			Asymmetric Wide	47,400	47,400	36,000	36,700	-	-	-	-	-	-	-	-			
			NEMA 4	65,000	65,000	50,400	51,400	61,400	61,400	46,800	47,800	57,900	57,900	43,200	44,200			
			NEMA 6	65,000	65,000	50,400	51,400	61,400	61,400	46,800	47,800	57,900	57,900	43,200	44,200			
60,000	00 484 499	499	NEMA 7x6	65,000	65,000	50,400	51,400	61,400	61,400	46,800	47,800	57,900	57,900	43,200	44,200			
						Asymmetric	-	-	-	-	56,900	56,900	42,300	43,200	53,300	53,300	38,700	39,700
			Asymmetric Wide	60,500	60,500	45,800	46,800	-	-	-	-	-	-	-	-			

Maximum per Circuit Breaker

120 VAC									
Lumen Output	10 Amp	16 Amp	20 Amp						
36,000	3	5	6						
48,000	2	3	4						
60,000	1	2	3						

277 VAC								
10 Amp	16 Amp	20 Amp						
7	11	14						
5	8	9						
3	5	7						
4	6	7						

347 VAC									
Lumen Output	10 Amp	16 Amp	20 Amp						
36,000	8	14	17						
48,000	6	9	11						
60,000	4	7	8						

480 VAC								
10 Amp	16 Amp	20 Amp						
12	19	23						
8	13	16						
6	9	11						
6	9	12						

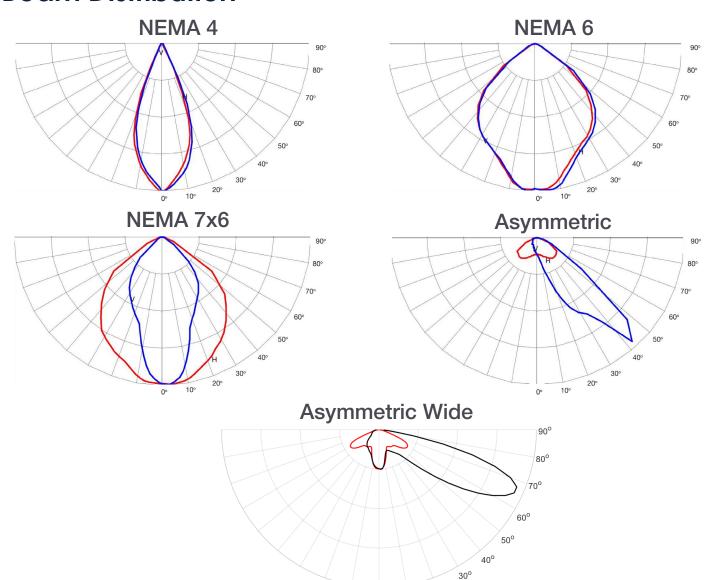
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Inrush Current

VAC	120	277	347	480						
F2 Models (30 - 36klm)										
Peak inrush current (A)	7.7	17.8	4.1	5.7						
Duration, T50 (ms)	1.5	1.5	1.5	1.5						
	F2 Models (48 - 65klm)									
Peak inrush current (A)	15.4	35.6	8.2	11.3						
Duration, T50 (ms)	1.5	1.5	1.5	1.5						

Beam Distribution



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Lumen Maintenance Factor - F2

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

	High Mast F2 - 48k lm (Hours)										
Ambient	0	15000	30000	45000	60000	75000	90000	100000	150000		
25°C	100%	97%	94%	91%	89%	86%	83%	82%	74%		
30°C	100%	97%	94%	91%	89%	86%	83%	82%	73%		
35°C	100%	97%	94%	91%	89%	86%	83%	81%	73%		
40°C	100%	97%	94%	91%	89%	86%	83%	81%	73%		
45°C	100%	97%	94%	91%	88%	86%	83%	81%	73%		
50°C	100%	97%	94%	91%	88%	86%	83%	81%	73%		
55°C	100%	97%	94%	91%	88%	85%	82%	81%	72%		
60°C	100%	97%	93%	90%	87%	84%	81%	79%	70%		
65°C	100%	96%	93%	89%	86%	83%	80%	78%	68%		

	High Mast F2 - 60k lm (Hours)										
Ambient	0	15000	30000	45000	60000	75000	90000	100000	150000		
25°C	100%	96%	93%	89%	86%	83%	80%	78%	70%		
30°C	100%	96%	92%	89%	86%	83%	80%	78%	69%		
35°C	100%	96%	92%	89%	85%	82%	79%	77%	68%		
40°C	100%	96%	92%	88%	85%	82%	78%	76%	67%		
45°C	100%	95%	91%	87%	83%	80%	76%	74%	63%		
50°C	100%	95%	90%	86%	81%	77%	73%	71%	60%		
55°C	100%	94%	89%	84%	79%	75%	71%	68%	56%		

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Accessories



H6XCAB72

- 72" stainless steel safety rope
- Kit includes: (1) cable **H6XCAB60**¹
- 60" stainless steel safety rope
- Kit includes: (1) cable



F2SPIKES

Bird spikes



FLWG

- Wire guard
- Kit includes (1) assembly

¹F2 models require 2 retention cables per unit.



F1NVISOR

• F1 visor NEMA optics



F2NVISOR

• F2 visor NEMA optics



F2AVISOR

- F2 visor asymmetric optics
- Not suitable for asymmetric wide optic

Replacements



SLPC01R

- Photocell, 105-305 VAC SLPC02R
- Photocell, 312-382 VAC SLPC03R
- Photocell, 432-528 VAC



FL10KV277

 10kA surge protection 100-277V

FL10KV480

 10kA surge protection 347-480V



FLGLASSLG

- Glass lens, gray FLGLASSLZ
- Glass lens, bronze
 FLPCLG
- Polycarb lens, gray
 FLPCLZ
- Polycarb lens, bronze

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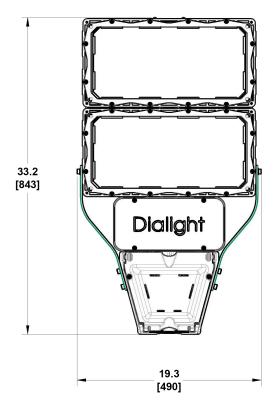
• Kit includes (1) assembly

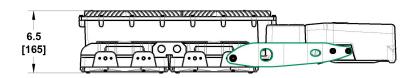
Replacement Power Supplies	
Part Number	Description
F2PS2H	120-277V Power Supply, 36k lm
F2PS2L	120-277V Power Supply, 48k lm
F2PS2N	120-277V Power Supply, 60k lm
F2PS5H	347-480V Power Supply, 36k lm
F2PS5L	347-480V Power Supply, 48k lm
F2PS5N	347-480V Power Supply, 60k lm

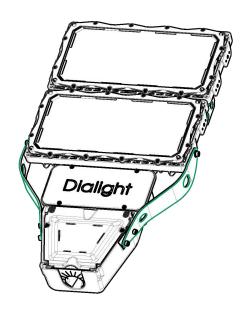
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Dimensional Drawings







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