

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P558691

Luminaire Tested: FSR-12-1-LD4-1LO-35-UNV-93-85-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-5)
Test Lab: INNOVATION CENTER
Issue Date: 7/20/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSR-12-1-LD4-1LO-35-UNV-93-85-EDD
Description: 1X1 FSR TROFFER WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 577.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

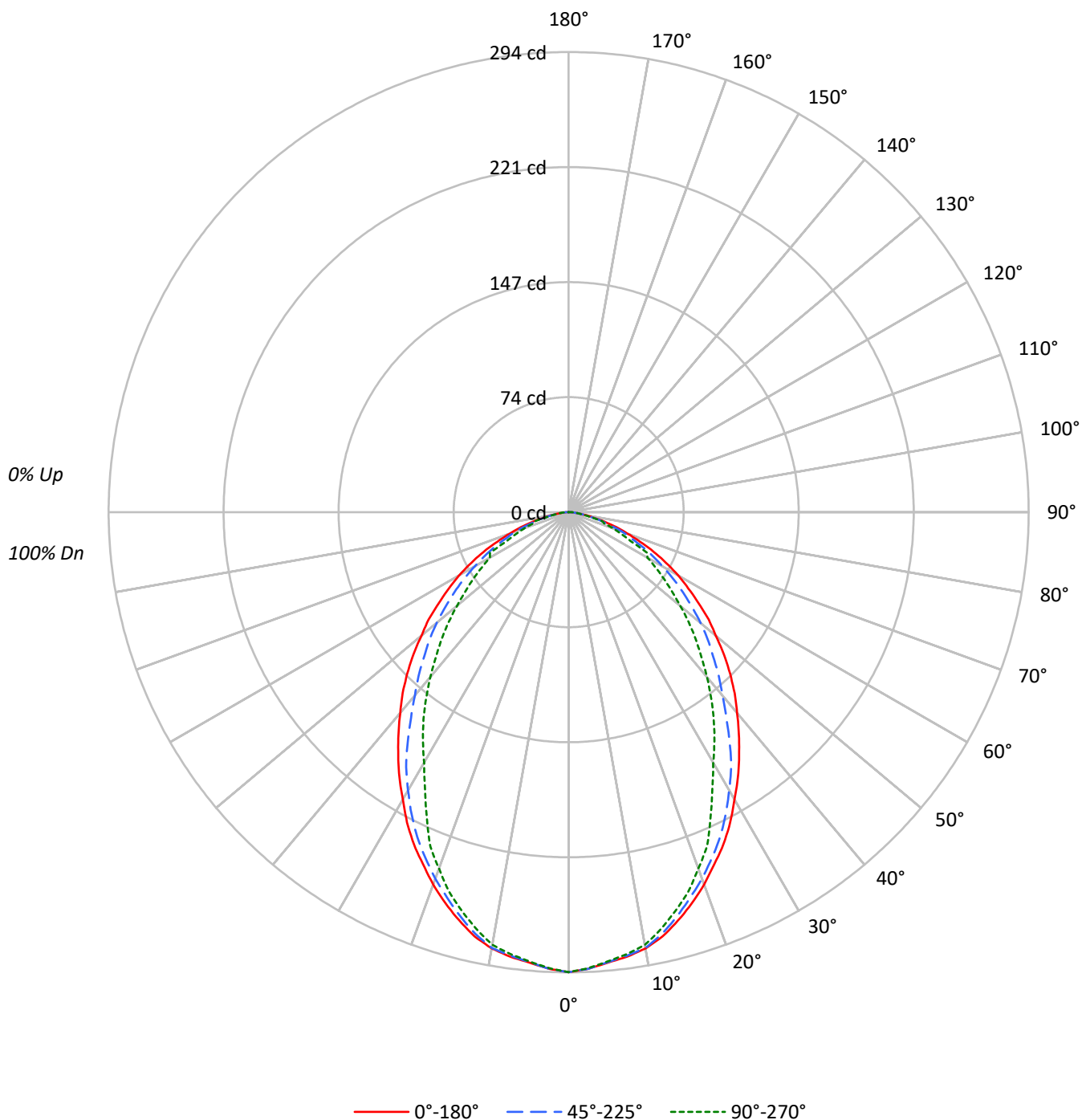
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65		
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	53	47	72	61	53	47	59	52	47	57	51	47	56	50	46	44		
7	69	56	48	43	67	56	48	42	54	47	42	53	46	42	51	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3164	3164	3164
5°	3120	3117	3113
10°	3093	3090	3068
15°	3010	2980	2939
20°	2899	2853	2775
25°	2780	2720	2550
30°	2635	2550	2297
35°	2495	2357	2125
40°	2354	2148	1933
45°	2219	1987	1748
50°	2055	1844	1559
55°	1901	1670	1396
60°	1742	1492	1251
65°	1531	1307	1108
70°	1262	1146	941
75°	1002	878	919
80°	676	632	589
85°	420	506	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2219 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	4.7
10°-20°	75.1	13.0
20°-30°	104.0	18.0
30°-40°	110.8	19.2
40°-50°	101.1	17.5
50°-60°	79.2	13.7
60°-70°	51.6	8.9
70°-80°	22.9	4.0
80°-90°	4.9	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	206.4	35.8
0°-40°	317.2	55.0
0°-60°	497.6	86.2
0°-90°	577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	289	288	288	288	288	27
15°	270	270	267	265	264	76
25°	234	233	229	221	215	107
35°	190	189	179	166	162	119
45°	146	143	130	120	115	112
55°	101	98	89	78	74	91
65°	60	57	51	52	44	59
75°	24	22	21	20	22	26
85°	3	4	4	4	5	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.9	293.9	293.9	293.9	293.9
2.5°	291.9	291.9	291.9	291.5	291.5
5°	288.8	288.5	288.5	288.1	288.1
7.5°	286.4	286.1	285.8	285.4	284.7
10°	283.0	283.0	282.7	281.0	280.7
12.5°	277.6	277.3	275.9	273.5	272.8
15°	270.1	270.1	267.4	264.7	263.7
17.5°	262.0	261.6	258.2	255.5	254.2
20°	253.1	252.5	249.1	244.6	242.3
22.5°	243.3	243.3	239.2	233.4	231.1
25°	234.1	232.8	229.0	220.9	214.7
27.5°	223.6	221.5	217.5	205.9	198.8
30°	212.0	211.0	205.2	190.3	184.8
32.5°	201.2	199.5	193.3	177.7	173.3
35°	189.9	188.6	179.4	165.8	161.7
37.5°	178.7	177.0	165.5	154.6	149.5
40°	167.5	165.5	152.9	143.1	137.6
42.5°	157.0	154.3	142.0	131.5	125.4
45°	145.8	142.7	130.5	119.6	114.8
47.5°	134.6	131.8	120.6	109.4	104.0
50°	122.7	120.3	110.1	98.9	93.1
52.5°	112.8	109.1	99.2	88.0	83.2
55°	101.3	98.2	89.0	78.5	74.4
57.5°	90.7	87.7	79.2	69.3	65.9
60°	80.9	76.5	69.3	60.8	58.1
62.5°	70.0	66.6	60.5	53.3	56.7
65°	60.1	56.7	51.3	52.3	43.5
67.5°	49.3	47.6	42.8	38.1	36.7
70°	40.1	38.1	36.4	31.3	29.9
72.5°	31.9	29.9	27.5	24.8	23.8
75°	24.1	22.4	21.1	20.0	22.1
77.5°	16.6	16.0	15.0	13.9	13.6
80°	10.9	10.5	10.2	9.9	9.5
82.5°	6.5	6.5	6.5	6.5	6.5
85°	3.4	3.7	4.1	4.4	4.8
87.5°	2.0	2.0	2.4	2.7	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)