

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: P558855

Luminaire Tested: FSR-12-1-LD4-1STD-35-UNV-81-87-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558855
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-LD4-1STD-35-UNV-81-87-EDD
Description: 1X1 FSR TROFFER WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SI
LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 701.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

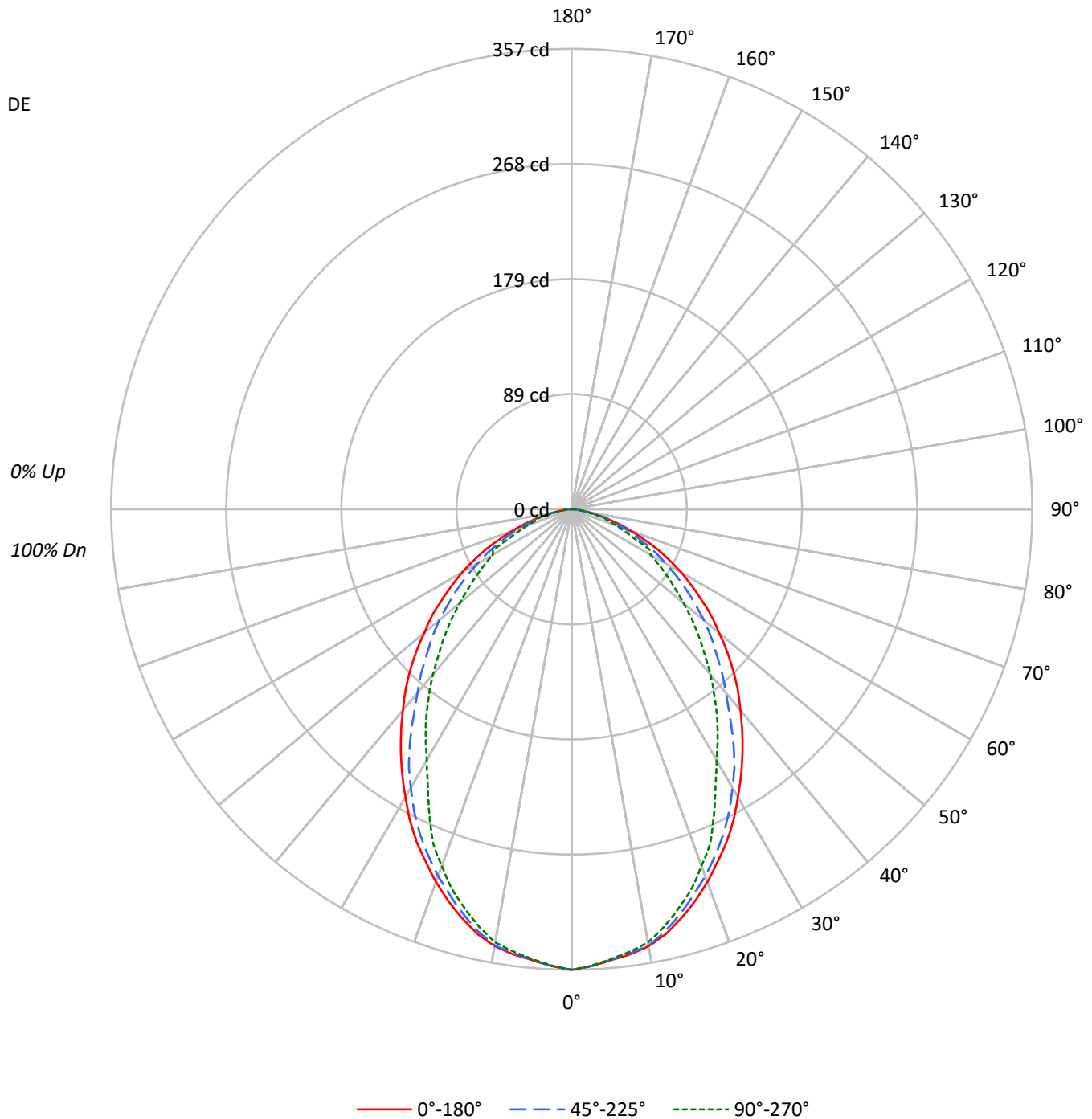
Input Watts (W): 8.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P558855

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3844	3844	3844
5°	3791	3787	3783
10°	3759	3754	3727
15°	3657	3621	3569
20°	3522	3466	3371
25°	3378	3304	3099
30°	3202	3099	2792
35°	3033	2865	2582
40°	2859	2611	2349
45°	2696	2413	2124
50°	2495	2241	1894
55°	2308	2031	1696
60°	2114	1813	1520
65°	1862	1587	1345
70°	1533	1391	1142
75°	1219	1065	1115
80°	818	769	719
85°	506	618	716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	4.7
10°-20°	91.2	13.0
20°-30°	126.3	18.0
30°-40°	134.7	19.2
40°-50°	122.9	17.5
50°-60°	96.2	13.7
60°-70°	62.7	8.9
70°-80°	27.8	4.0
80°-90°	6.0	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°	250.8	35.8
0°-40°	385.4	55.0
0°-60°	604.5	86.2
0°-90°	701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	357	357	357	357	357	
5°	351	350	350	350	350	33
15°	328	328	325	322	320	92
25°	284	283	278	268	261	131
35°	231	229	218	202	196	144
45°	177	173	158	145	140	136
55°	123	119	108	95	90	110
65°	73	69	62	64	53	72
75°	29	27	26	24	27	31
85°	4	4	5	5	6	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	357.1	357.1	357.1	357.1	357.1
2.5°	354.6	354.6	354.6	354.2	354.2
5°	350.9	350.5	350.5	350.1	350.1
7.5°	348.0	347.6	347.2	346.8	345.9
10°	343.9	343.9	343.5	341.4	341.0
12.5°	337.3	336.9	335.2	332.3	331.5
15°	328.2	328.2	324.9	321.6	320.3
17.5°	318.3	317.9	313.7	310.4	308.8
20°	307.5	306.7	302.6	297.2	294.3
22.5°	295.6	295.6	290.6	283.6	280.7
25°	284.4	282.8	278.2	268.3	260.9
27.5°	271.6	269.2	264.2	250.2	241.5
30°	257.6	256.4	249.3	231.2	224.6
32.5°	244.4	242.3	234.9	215.9	210.5
35°	230.8	229.1	218.0	201.5	196.5
37.5°	217.1	215.1	201.0	187.8	181.6
40°	203.5	201.0	185.8	173.8	167.2
42.5°	190.7	187.4	172.6	159.8	152.3
45°	177.1	173.4	158.5	145.3	139.5
47.5°	163.5	160.2	146.5	132.9	126.3
50°	149.0	146.1	133.8	120.1	113.1
52.5°	137.1	132.5	120.5	106.9	101.1
55°	123.0	119.3	108.2	95.4	90.4
57.5°	110.2	106.5	96.2	84.2	80.1
60°	98.2	92.9	84.2	73.9	70.6
62.5°	85.0	80.9	73.5	64.8	68.9
65°	73.1	68.9	62.3	63.6	52.8
67.5°	59.9	57.8	52.0	46.2	44.6
70°	48.7	46.2	44.2	38.0	36.3
72.5°	38.8	36.3	33.4	30.1	28.9
75°	29.3	27.2	25.6	24.4	26.8
77.5°	20.2	19.4	18.2	16.9	16.5
80°	13.2	12.8	12.4	12.0	11.6
82.5°	7.8	7.8	7.8	7.8	7.8
85°	4.1	4.5	5.0	5.4	5.8
87.5°	2.5	2.5	2.9	3.3	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)