

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: P558860

Luminaire Tested: FSR-12-1-LD4-1STD-35-UNV-81-96-EDD-90

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558860
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-81-96-EDD-90
Description: 1X1 FSR TROFFER WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 620.0 lumens
Efficiency: N/A
Efficacy: 74.7 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

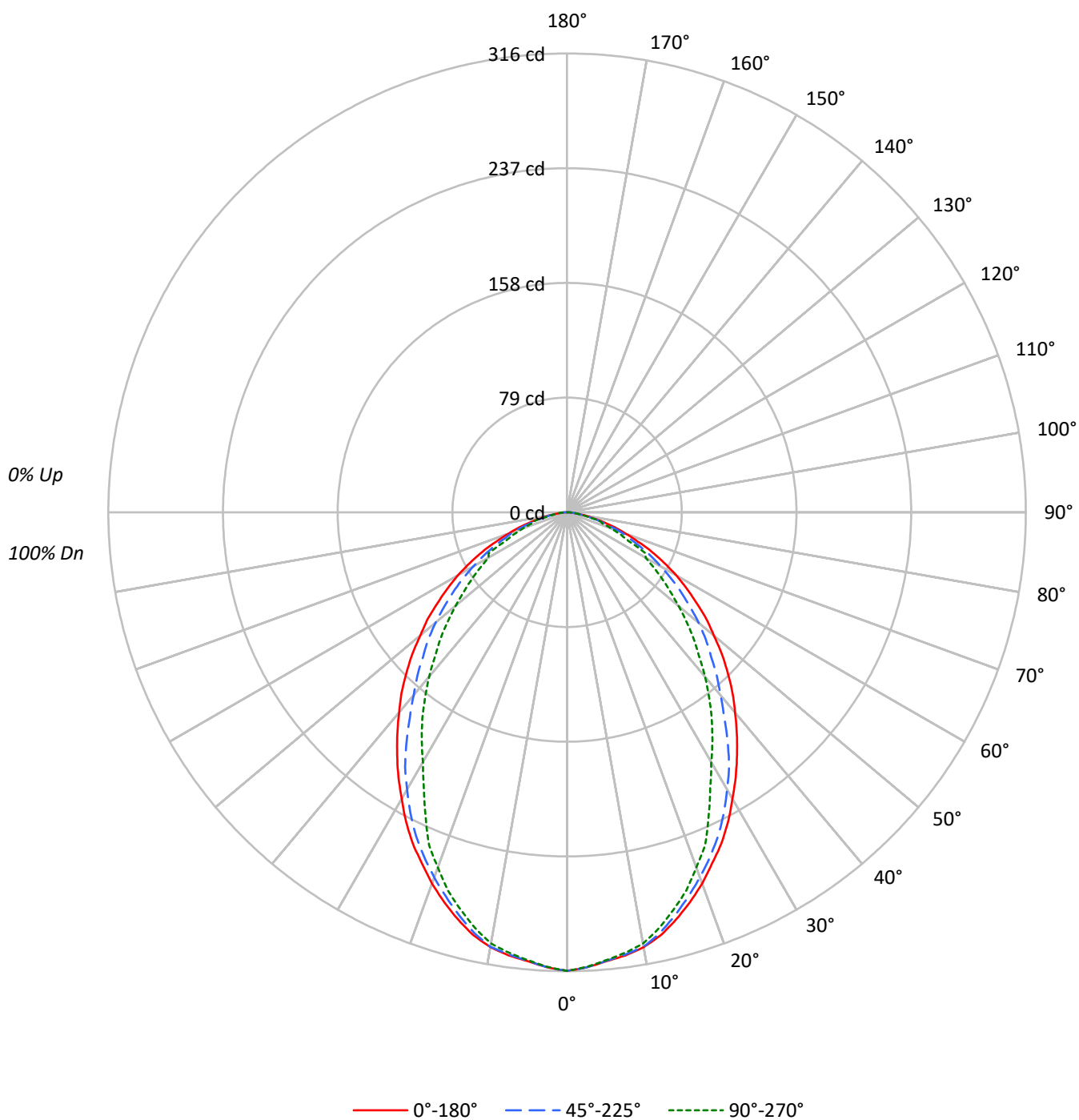
Input Watts (W): 8.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0			
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	48	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°	3399	3399	3399
5°	3353	3350	3345
10°	3324	3321	3296
15°	3235	3202	3157
20°	3116	3065	2982
25°	2988	2923	2740
30°	2831	2741	2468
35°	2682	2533	2284
40°	2529	2309	2078
45°	2384	2134	1878
50°	2207	1981	1675
55°	2042	1796	1501
60°	1871	1604	1343
65°	1645	1403	1189
70°	1356	1231	1010
75°	1077	940	986
80°	725	682	632
85°	457	543	630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	4.7
10°-20°	80.7	13.0
20°-30°	111.7	18.0
30°-40°	119.1	19.2
40°-50°	108.7	17.5
50°-60°	85.1	13.7
60°-70°	55.5	8.9
70°-80°	24.6	4.0
80°-90°	5.3	0.8
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°	221.8	35.8
0°-40°	340.9	55.0
0°-60°	534.7	86.2
0°-90°	620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	316	316	316	316	316	
5°	310	310	310	310	310	29
15°	290	290	287	284	283	82
25°	252	250	246	237	231	115
35°	204	203	193	178	174	128
45°	157	153	140	128	123	121
55°	109	106	96	84	80	98
65°	65	61	55	56	47	64
75°	26	24	23	22	24	28
85°	4	4	4	5	5	5
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	315.8	315.8	315.8	315.8	315.8
2.5°	313.6	313.6	313.6	313.3	313.3
5°	310.3	310.0	310.0	309.6	309.6
7.5°	307.8	307.4	307.1	306.7	306.0
10°	304.1	304.1	303.8	301.9	301.6
12.5°	298.3	297.9	296.5	293.9	293.2
15°	290.3	290.3	287.3	284.4	283.3
17.5°	281.5	281.1	277.5	274.6	273.1
20°	272.0	271.3	267.6	262.9	260.3
22.5°	261.4	261.4	257.0	250.8	248.3
25°	251.6	250.1	246.1	237.3	230.7
27.5°	240.2	238.1	233.7	221.3	213.6
30°	227.8	226.7	220.5	204.5	198.6
32.5°	216.1	214.3	207.7	191.0	186.2
35°	204.1	202.6	192.8	178.2	173.8
37.5°	192.0	190.2	177.8	166.1	160.6
40°	180.0	177.8	164.3	153.7	147.9
42.5°	168.7	165.8	152.6	141.3	134.7
45°	156.6	153.3	140.2	128.5	123.4
47.5°	144.6	141.7	129.6	117.6	111.7
50°	131.8	129.2	118.3	106.2	100.0
52.5°	121.2	117.2	106.6	94.6	89.5
55°	108.8	105.5	95.7	84.3	80.0
57.5°	97.5	94.2	85.1	74.5	70.8
60°	86.9	82.1	74.5	65.4	62.4
62.5°	75.2	71.6	65.0	57.3	61.0
65°	64.6	61.0	55.1	56.2	46.7
67.5°	52.9	51.1	46.0	40.9	39.4
70°	43.1	40.9	39.1	33.6	32.1
72.5°	34.3	32.1	29.6	26.7	25.6
75°	25.9	24.1	22.6	21.5	23.7
77.5°	17.9	17.2	16.1	15.0	14.6
80°	11.7	11.3	11.0	10.6	10.2
82.5°	6.9	6.9	6.9	6.9	6.9
85°	3.7	4.0	4.4	4.7	5.1
87.5°	2.2	2.2	2.6	2.9	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)