

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: P558775

Luminaire Tested: FSR-12-1-LD4-1LO-50-UNV-80-87-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558775
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-50-UNV-80-87-EDD
Description: 1X1 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR PC ENVIRON
SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 566.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

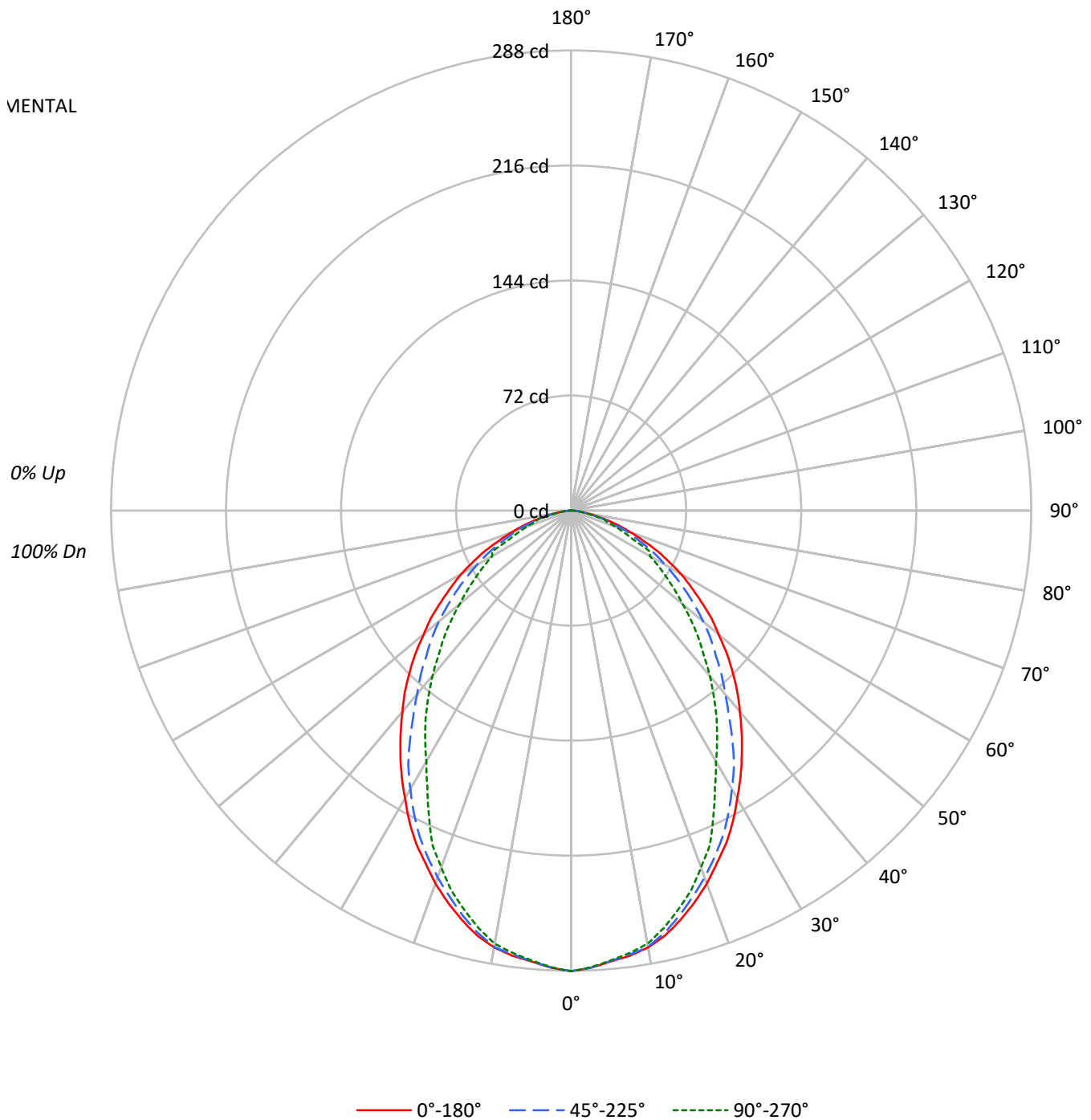
Input Watts (W): 5.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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°	3103	3103	3103
5°	3061	3058	3054
10°	3034	3031	3009
15°	2953	2923	2882
20°	2844	2798	2722
25°	2728	2669	2502
30°	2585	2502	2253
35°	2448	2313	2085
40°	2309	2108	1897
45°	2177	1948	1716
50°	2015	1809	1529
55°	1863	1638	1370
60°	1707	1464	1227
65°	1503	1281	1088
70°	1237	1124	922
75°	986	861	902
80°	663	620	576
85°	408	494	580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2177 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	4.7
10°-20°	73.6	13.0
20°-30°	102.0	18.0
30°-40°	108.7	19.2
40°-50°	99.2	17.5
50°-60°	77.7	13.7
60°-70°	50.6	8.9
70°-80°	22.4	4.0
80°-90°	4.8	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°	202.5	35.8
0°-40°	311.2	55.0
0°-60°	488.1	86.2
0°-90°	566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	283	283	283	283	283	27
15°	265	265	262	260	259	74
25°	230	228	225	217	211	105
35°	186	185	176	163	159	116
45°	143	140	128	117	113	110
55°	99	96	87	77	73	89
65°	59	56	50	51	43	58
75°	24	22	21	20	22	25
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°	288.3	288.3	288.3	288.3	288.3
2.5°	286.3	286.3	286.3	286.0	286.0
5°	283.3	283.0	283.0	282.6	282.6
7.5°	281.0	280.6	280.3	280.0	279.3
10°	277.6	277.6	277.3	275.6	275.3
12.5°	272.3	272.0	270.6	268.3	267.6
15°	265.0	265.0	262.3	259.6	258.6
17.5°	257.0	256.6	253.3	250.6	249.3
20°	248.3	247.6	244.3	240.0	237.6
22.5°	238.6	238.6	234.6	229.0	226.7
25°	229.7	228.3	224.7	216.7	210.7
27.5°	219.3	217.3	213.3	202.0	195.0
30°	208.0	207.0	201.3	186.7	181.3
32.5°	197.3	195.7	189.7	174.3	170.0
35°	186.3	185.0	176.0	162.7	158.7
37.5°	175.3	173.7	162.3	151.7	146.7
40°	164.3	162.3	150.0	140.3	135.0
42.5°	154.0	151.3	139.3	129.0	123.0
45°	143.0	140.0	128.0	117.3	112.7
47.5°	132.0	129.3	118.3	107.3	102.0
50°	120.3	118.0	108.0	97.0	91.3
52.5°	110.7	107.0	97.3	86.3	81.7
55°	99.3	96.3	87.3	77.0	73.0
57.5°	89.0	86.0	77.7	68.0	64.7
60°	79.3	75.0	68.0	59.7	57.0
62.5°	68.7	65.3	59.3	52.3	55.7
65°	59.0	55.7	50.3	51.3	42.7
67.5°	48.3	46.7	42.0	37.3	36.0
70°	39.3	37.3	35.7	30.7	29.3
72.5°	31.3	29.3	27.0	24.3	23.3
75°	23.7	22.0	20.7	19.7	21.7
77.5°	16.3	15.7	14.7	13.7	13.3
80°	10.7	10.3	10.0	9.7	9.3
82.5°	6.3	6.3	6.3	6.3	6.3
85°	3.3	3.7	4.0	4.3	4.7
87.5°	2.0	2.0	2.3	2.7	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)