

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: P558773

Luminaire Tested: FSR-12-1-LD4-1LO-50-UNV-80-86-EDD

Issue Date: 7/20/2021

Test Information

Test Method: LM-79-2019
Report Number: P558773
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-80-86-EDD
Description: 1X1 FSR TROFFER WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRON
SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

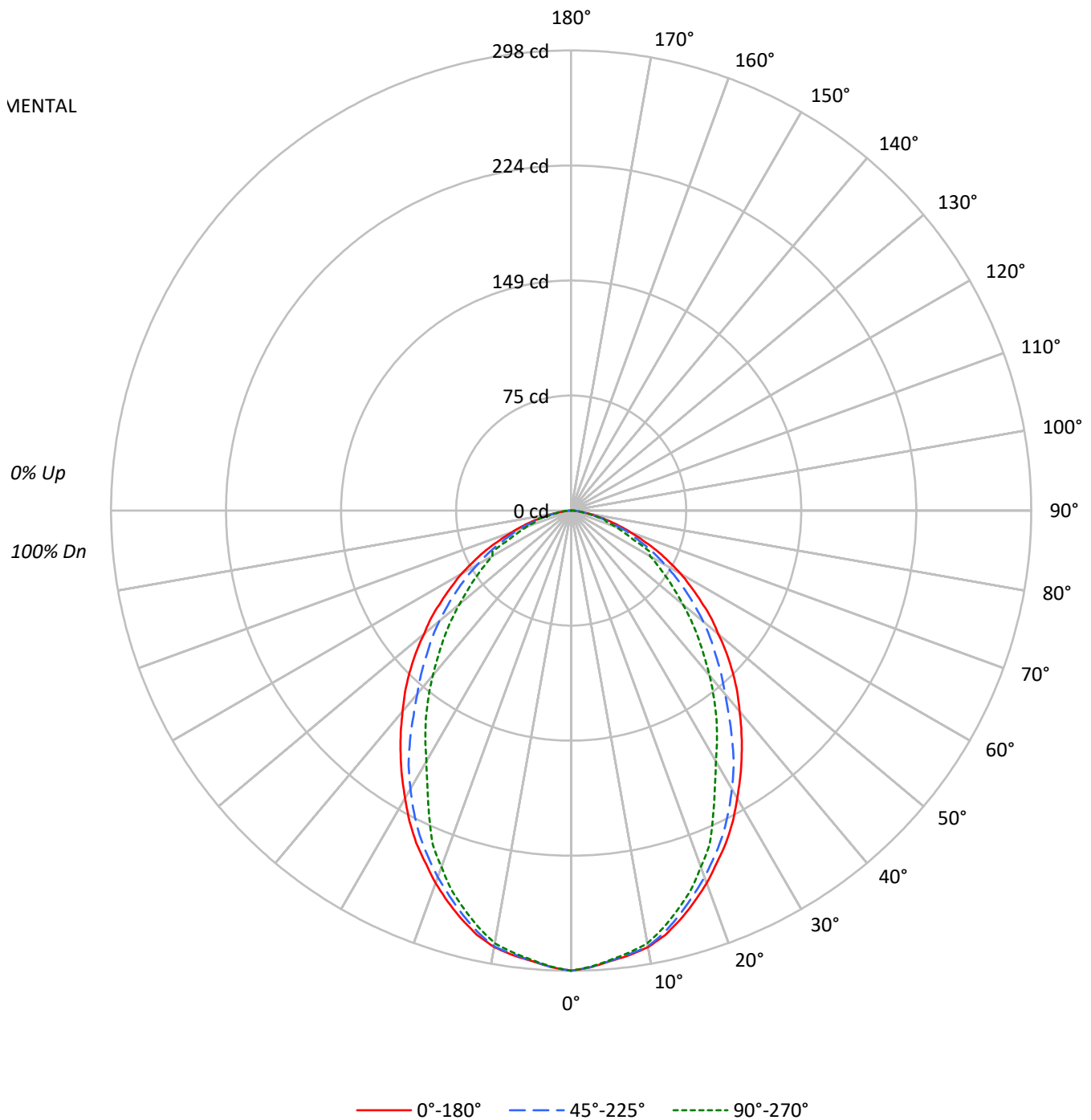
Lumens per Lamp: N/A
Luminaire Lumens: 585.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1 / 1.15
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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									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°	3208	3208	3208
5°	3164	3160	3156
10°	3137	3133	3111
15°	3052	3021	2979
20°	2940	2892	2813
25°	2820	2758	2586
30°	2672	2586	2329
35°	2531	2390	2155
40°	2386	2178	1960
45°	2250	2014	1772
50°	2083	1869	1581
55°	1927	1695	1415
60°	1765	1513	1268
65°	1554	1324	1123
70°	1281	1161	954
75°	1019	890	932
80°	682	638	595
85°	420	506	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2250 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	4.7
10°-20°	76.1	13.0
20°-30°	105.4	18.0
30°-40°	112.4	19.2
40°-50°	102.5	17.5
50°-60°	80.3	13.7
60°-70°	52.4	8.9
70°-80°	23.2	4.0
80°-90°	5.0	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°	209.3	35.8
0°-40°	321.6	55.0
0°-60°	504.5	86.2
0°-90°	585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	293	292	292	292	292	28
15°	274	274	271	268	267	77
25°	237	236	232	224	218	109
35°	193	191	182	168	164	120
45°	148	145	132	121	116	114
55°	103	100	90	80	75	92
65°	61	58	52	53	44	60
75°	24	23	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°	298.0	298.0	298.0	298.0	298.0
2.5°	295.9	295.9	295.9	295.6	295.6
5°	292.8	292.5	292.5	292.1	292.1
7.5°	290.4	290.1	289.7	289.4	288.7
10°	287.0	287.0	286.6	284.9	284.6
12.5°	281.5	281.1	279.7	277.3	276.6
15°	273.9	273.9	271.1	268.4	267.3
17.5°	265.6	265.3	261.8	259.1	257.7
20°	256.7	256.0	252.5	248.0	245.6
22.5°	246.7	246.7	242.5	236.7	234.3
25°	237.4	236.0	232.2	223.9	217.7
27.5°	226.7	224.6	220.5	208.8	201.5
30°	215.0	213.9	208.1	192.9	187.4
32.5°	203.9	202.2	196.0	180.2	175.7
35°	192.6	191.2	181.9	168.1	164.0
37.5°	181.2	179.5	167.8	156.7	151.6
40°	169.8	167.8	155.0	145.0	139.5
42.5°	159.2	156.4	144.0	133.3	127.1
45°	147.8	144.7	132.3	121.3	116.4
47.5°	136.4	133.7	122.3	110.9	105.4
50°	124.4	122.0	111.6	100.2	94.4
52.5°	114.4	110.6	100.6	89.2	84.4
55°	102.7	99.6	90.3	79.6	75.4
57.5°	92.0	88.9	80.3	70.3	66.8
60°	82.0	77.5	70.3	61.7	58.9
62.5°	71.0	67.5	61.3	54.1	57.5
65°	61.0	57.5	52.0	53.1	44.1
67.5°	50.0	48.2	43.4	38.6	37.2
70°	40.7	38.6	36.9	31.7	30.3
72.5°	32.4	30.3	27.9	25.1	24.1
75°	24.5	22.7	21.4	20.3	22.4
77.5°	16.9	16.2	15.2	14.1	13.8
80°	11.0	10.7	10.3	10.0	9.6
82.5°	6.5	6.5	6.5	6.5	6.5
85°	3.4	3.8	4.1	4.5	4.8
87.5°	2.1	2.1	2.4	2.8	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)