

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P557759

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-UNV-80-97-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P557759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-4-LD4-3HI-35-UNV-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

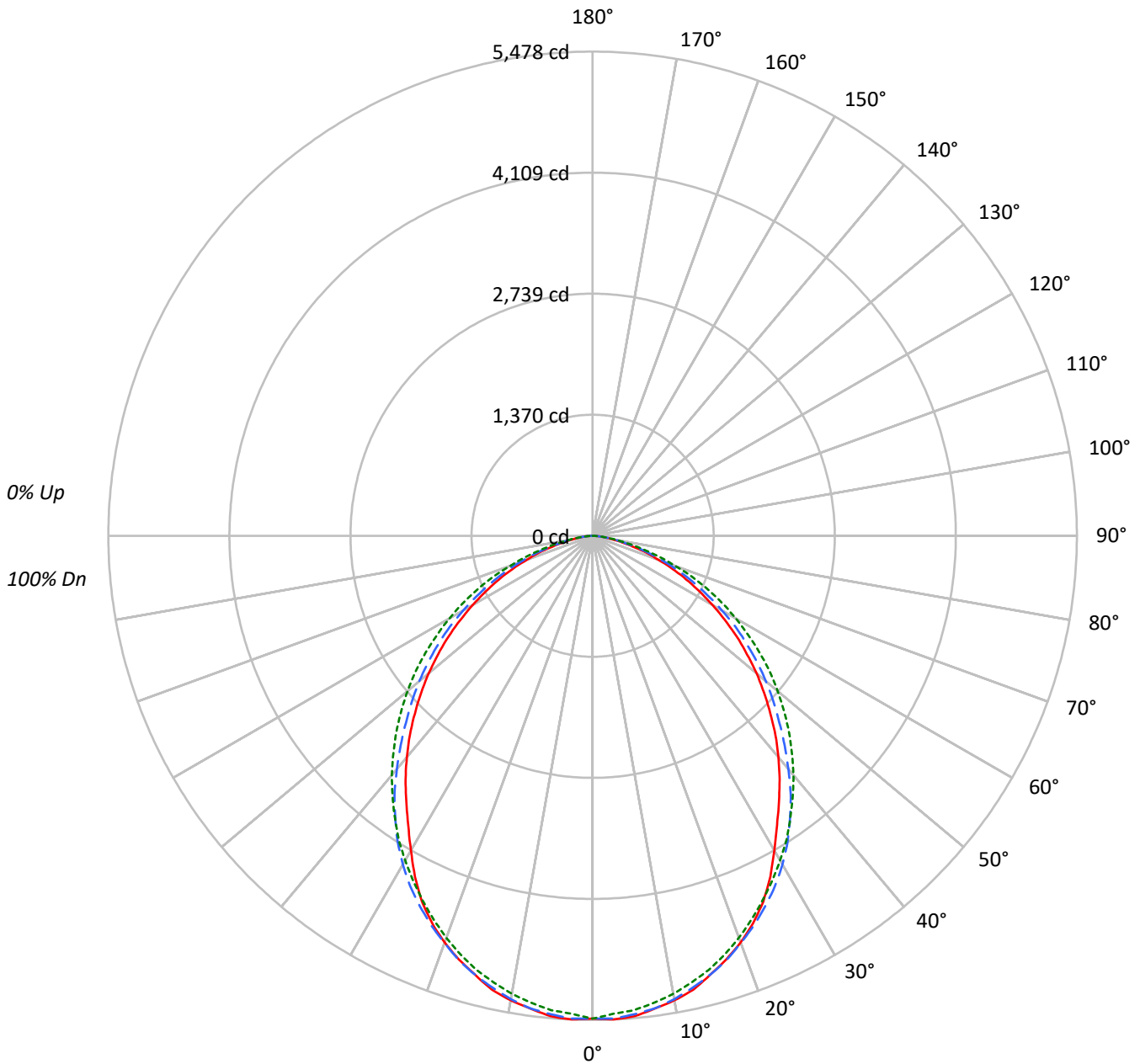
Lumens per Lamp: N/A
Luminaire Lumens: 12632.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86								
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73								
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63								
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54								
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47								
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42								
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37								
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34								
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30								
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14701	14701	14701
5°	14740	14678	14553
10°	14584	14543	14377
15°	14325	14325	14161
20°	14022	14040	13859
25°	13560	13728	13510
30°	12769	13343	13180
35°	12065	12789	12810
40°	11479	12098	12415
45°	10822	11365	11949
50°	10130	10711	11440
55°	9344	9964	10821
60°	8415	9093	10064
65°	7430	8085	9154
70°	6192	6886	7777
75°	4866	5499	6088
80°	3481	3870	4293
85°	2269	2269	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.4	4.1
10°-20°	1445.0	11.4
20°-30°	2111.6	16.7
30°-40°	2396.9	19.0
40°-50°	2313.8	18.3
50°-60°	1908.7	15.1
60°-70°	1271.1	10.1
70°-80°	568.8	4.5
80°-90°	101.8	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°	4070.9	32.2
0°-40°	6467.8	51.2
0°-60°	10690.4	84.6
0°-90°	12632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5463	5463	5463	5463	5463	
5°	5457	5455	5434	5404	5388	516
15°	5142	5154	5142	5119	5083	1450
25°	4567	4602	4624	4590	4550	2091
35°	3673	3723	3893	3914	3900	2301
45°	2844	2892	2986	3123	3140	2194
55°	1992	2025	2124	2242	2306	1778
65°	1167	1198	1270	1360	1438	1157
75°	468	493	529	554	586	512
85°	74	74	74	69	69	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5463.0	5463.0	5463.0	5463.0	5463.0
2.5°	5477.7	5479.8	5467.2	5433.6	5412.6
5°	5456.7	5454.6	5433.6	5404.2	5387.5
7.5°	5395.9	5400.1	5393.8	5351.8	5328.7
10°	5337.1	5339.2	5322.4	5288.8	5261.5
12.5°	5261.5	5259.4	5236.4	5219.6	5175.5
15°	5141.9	5154.5	5141.9	5118.8	5083.1
17.5°	5026.5	5026.5	5034.9	4995.0	4967.7
20°	4896.4	4902.7	4902.7	4871.2	4839.7
22.5°	4745.2	4764.1	4770.4	4736.9	4699.1
25°	4566.9	4602.5	4623.5	4589.9	4550.1
27.5°	4350.7	4405.3	4468.2	4443.0	4399.0
30°	4109.3	4189.1	4294.0	4273.0	4241.5
32.5°	3880.6	3960.3	4105.1	4096.7	4079.9
35°	3672.8	3723.2	3893.2	3914.1	3899.5
37.5°	3475.5	3521.7	3681.2	3729.5	3716.9
40°	3267.7	3318.1	3444.0	3530.1	3534.3
42.5°	3062.1	3110.3	3213.2	3337.0	3337.0
45°	2843.8	2892.1	2986.5	3122.9	3139.7
47.5°	2629.7	2680.1	2772.4	2908.9	2936.1
50°	2419.8	2466.0	2558.4	2690.6	2732.6
52.5°	2201.6	2251.9	2342.2	2463.9	2524.8
55°	1991.7	2025.3	2123.9	2241.5	2306.5
57.5°	1773.4	1804.9	1916.1	2016.9	2084.0
60°	1563.6	1603.4	1689.5	1792.3	1870.0
62.5°	1362.1	1404.1	1477.5	1567.8	1655.9
65°	1166.9	1198.4	1269.7	1360.0	1437.6
67.5°	978.0	1005.3	1076.7	1139.6	1221.5
70°	787.0	822.7	875.2	936.0	988.5
72.5°	633.8	648.5	692.6	736.7	791.2
75°	468.0	493.2	528.9	554.1	585.5
77.5°	335.8	350.5	371.5	392.5	421.8
80°	224.6	230.9	249.7	253.9	277.0
82.5°	136.4	140.6	144.8	146.9	155.3
85°	73.5	73.5	73.5	69.3	69.3
87.5°	42.0	42.0	35.7	29.4	21.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)