

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: P557755

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-UNV-80-94-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: P557755
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-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

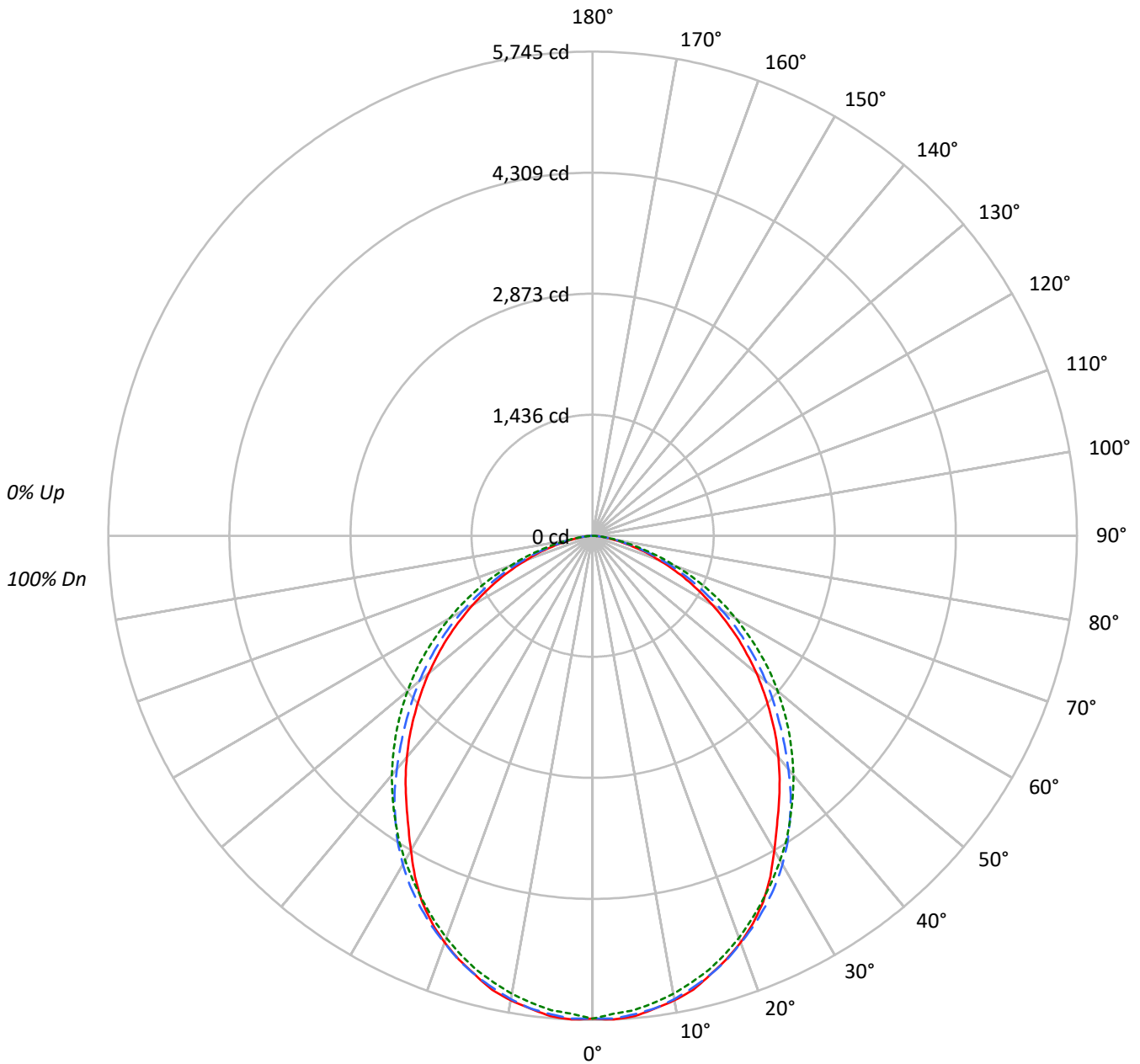
Lumens per Lamp: N/A
Luminaire Lumens: 13248.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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									
RC	80									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°	15418	15418	15418
5°	15459	15393	15263
10°	15295	15252	15078
15°	15024	15024	14852
20°	14705	14724	14535
25°	14221	14397	14169
30°	13391	13993	13822
35°	12654	13413	13435
40°	12039	12688	13021
45°	11350	11920	12531
50°	10624	11233	11997
55°	9800	10450	11349
60°	8825	9536	10555
65°	7792	8479	9600
70°	6494	7222	8157
75°	5103	5767	6385
80°	3649	4059	4502
85°	2377	2377	2242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.4	4.1
10°-20°	1515.4	11.4
20°-30°	2214.6	16.7
30°-40°	2513.8	19.0
40°-50°	2426.7	18.3
50°-60°	2001.8	15.1
60°-70°	1333.1	10.1
70°-80°	596.5	4.5
80°-90°	106.7	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°	4269.5	32.2
0°-40°	6783.2	51.2
0°-60°	11211.7	84.6
0°-90°	13248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5729	5729	5729	5729	5729	
5°	5723	5721	5699	5668	5650	542
15°	5393	5406	5393	5368	5331	1520
25°	4790	4827	4849	4814	4772	2193
35°	3852	3905	4083	4105	4090	2413
45°	2982	3033	3132	3275	3293	2301
55°	2089	2124	2228	2351	2419	1864
65°	1224	1257	1332	1426	1508	1213
75°	491	517	555	581	614	537
85°	77	77	77	73	73	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5729.4	5729.4	5729.4	5729.4	5729.4
2.5°	5744.8	5747.0	5733.8	5698.6	5676.6
5°	5722.8	5720.6	5698.6	5667.8	5650.2
7.5°	5659.0	5663.4	5656.8	5612.8	5588.5
10°	5597.4	5599.6	5581.9	5546.7	5518.1
12.5°	5518.1	5515.9	5491.7	5474.1	5427.9
15°	5392.7	5405.9	5392.7	5368.4	5331.0
17.5°	5271.6	5271.6	5280.4	5238.6	5210.0
20°	5135.1	5141.7	5141.7	5108.7	5075.7
22.5°	4976.6	4996.5	5003.1	4967.8	4928.2
25°	4789.6	4827.0	4849.0	4813.8	4771.9
27.5°	4562.8	4620.1	4686.1	4659.7	4613.5
30°	4309.7	4393.4	4503.4	4481.4	4448.4
32.5°	4069.8	4153.4	4305.3	4296.5	4278.9
35°	3851.9	3904.7	4083.0	4105.0	4089.6
37.5°	3645.0	3693.4	3860.7	3911.3	3898.1
40°	3427.1	3479.9	3612.0	3702.2	3706.6
42.5°	3211.4	3262.0	3369.9	3499.7	3499.7
45°	2982.5	3033.1	3132.1	3275.2	3292.8
47.5°	2758.0	2810.8	2907.6	3050.7	3079.3
50°	2537.8	2586.3	2683.1	2821.8	2865.8
52.5°	2308.9	2361.8	2456.4	2584.1	2647.9
55°	2088.8	2124.0	2227.5	2350.8	2419.0
57.5°	1859.9	1892.9	2009.6	2115.2	2185.7
60°	1639.8	1681.6	1771.9	1879.7	1961.2
62.5°	1428.5	1472.5	1549.6	1644.2	1736.7
65°	1223.8	1256.8	1331.7	1426.3	1507.7
67.5°	1025.7	1054.3	1129.2	1195.2	1281.0
70°	825.4	862.8	917.9	981.7	1036.7
72.5°	664.7	680.1	726.4	772.6	829.8
75°	490.8	517.3	554.7	581.1	614.1
77.5°	352.2	367.6	389.6	411.6	442.4
80°	235.5	242.1	261.9	266.3	290.5
82.5°	143.1	147.5	151.9	154.1	162.9
85°	77.0	77.0	77.0	72.6	72.6
87.5°	44.0	44.0	37.4	30.8	22.0
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)