

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: P557745

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-UNV-80-84-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: P557745
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-80-84-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

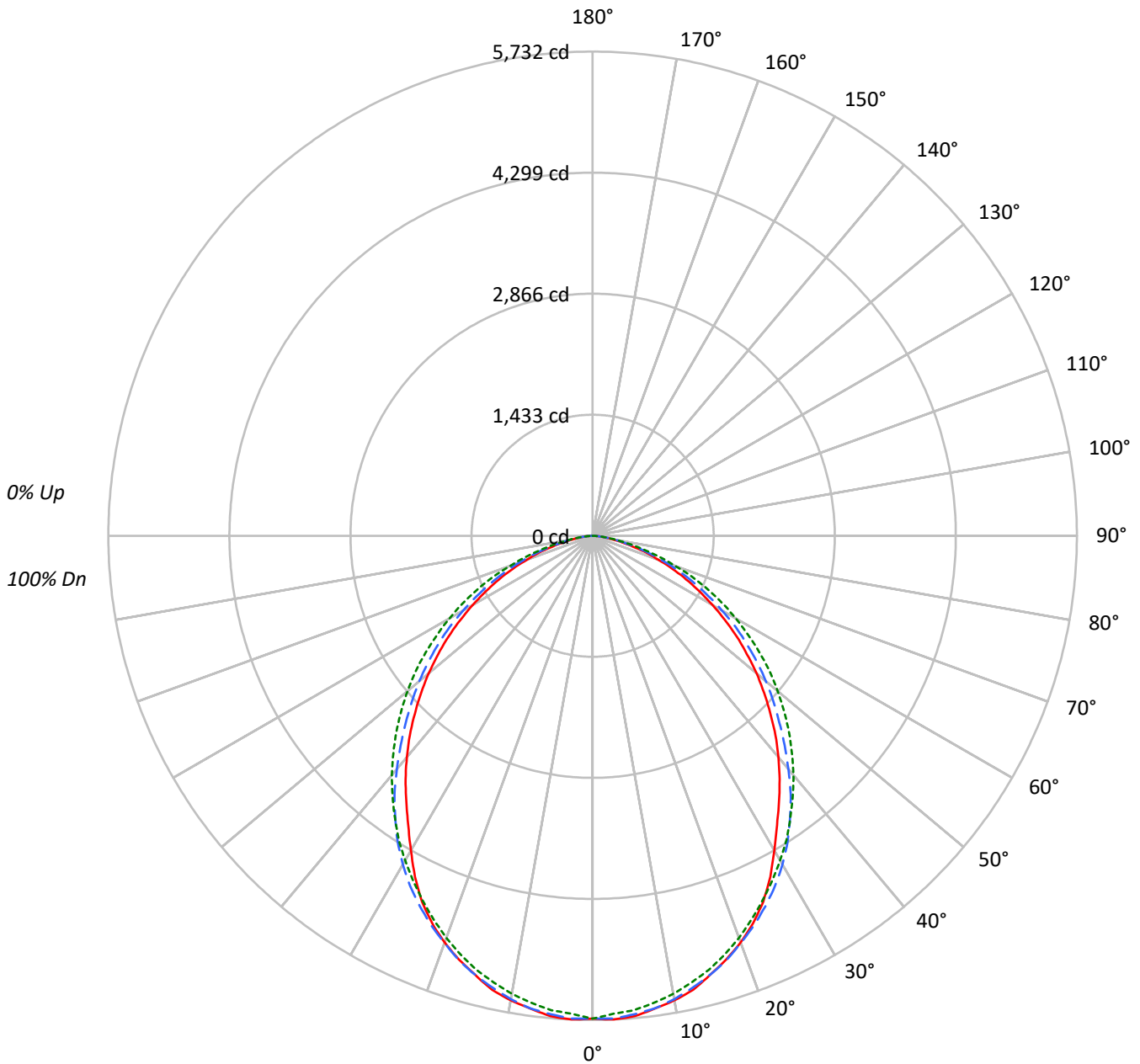
Lumens per Lamp: N/A
Luminaire Lumens: 13218.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (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: 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°	15383	15383	15383
5°	15424	15359	15228
10°	15260	15218	15044
15°	14989	14989	14818
20°	14672	14691	14502
25°	14189	14365	14136
30°	13361	13962	13791
35°	12625	13383	13404
40°	12011	12660	12991
45°	11324	11893	12503
50°	10600	11207	11970
55°	9778	10427	11323
60°	8805	9515	10531
65°	7775	8460	9578
70°	6479	7205	8139
75°	5091	5754	6370
80°	3642	4049	4493
85°	2374	2374	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.2	4.1
10°-20°	1512.0	11.4
20°-30°	2209.5	16.7
30°-40°	2508.1	19.0
40°-50°	2421.1	18.3
50°-60°	1997.3	15.1
60°-70°	1330.0	10.1
70°-80°	595.2	4.5
80°-90°	106.5	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°	4259.8	32.2
0°-40°	6767.9	51.2
0°-60°	11186.3	84.6
0°-90°	13218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5716	5716	5716	5716	5716	
5°	5710	5708	5686	5655	5637	540
15°	5380	5394	5380	5356	5319	1517
25°	4779	4816	4838	4803	4761	2188
35°	3843	3896	4074	4096	4080	2408
45°	2976	3026	3125	3268	3285	2296
55°	2084	2119	2222	2345	2414	1860
65°	1221	1254	1329	1423	1504	1211
75°	490	516	553	580	613	535
85°	77	77	77	72	72	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5716.4	5716.4	5716.4	5716.4	5716.4
2.5°	5731.8	5734.0	5720.8	5685.7	5663.7
5°	5709.9	5707.7	5685.7	5655.0	5637.4
7.5°	5646.2	5650.6	5644.0	5600.1	5575.9
10°	5584.7	5586.9	5569.3	5534.2	5505.6
12.5°	5505.6	5503.4	5479.3	5461.7	5415.6
15°	5380.4	5393.6	5380.4	5356.3	5318.9
17.5°	5259.7	5259.7	5268.4	5226.7	5198.2
20°	5123.5	5130.1	5130.1	5097.1	5064.2
22.5°	4965.4	4985.1	4991.7	4956.6	4917.1
25°	4778.7	4816.0	4838.0	4802.9	4761.1
27.5°	4552.5	4609.6	4675.5	4649.1	4603.0
30°	4300.0	4383.4	4493.2	4471.3	4438.3
32.5°	4060.6	4144.0	4295.6	4286.8	4269.2
35°	3843.2	3895.9	4073.8	4095.7	4080.4
37.5°	3636.7	3685.1	3852.0	3902.5	3889.3
40°	3419.3	3472.0	3603.8	3693.8	3698.2
42.5°	3204.1	3254.6	3362.2	3491.8	3491.8
45°	2975.7	3026.2	3125.0	3267.8	3285.4
47.5°	2751.7	2804.4	2901.0	3043.8	3072.3
50°	2532.1	2580.4	2677.0	2815.4	2859.3
52.5°	2303.7	2356.4	2450.8	2578.2	2641.9
55°	2084.1	2119.2	2222.5	2345.4	2413.5
57.5°	1855.7	1888.6	2005.0	2110.5	2180.7
60°	1636.1	1677.8	1767.9	1875.5	1956.7
62.5°	1425.3	1469.2	1546.1	1640.5	1732.7
65°	1221.0	1254.0	1328.6	1423.1	1504.3
67.5°	1023.4	1051.9	1126.6	1192.5	1278.1
70°	823.5	860.9	915.8	979.5	1034.4
72.5°	663.2	678.6	724.7	770.8	827.9
75°	489.7	516.1	553.4	579.8	612.7
77.5°	351.4	366.7	388.7	410.7	441.4
80°	235.0	241.6	261.3	265.7	289.9
82.5°	142.7	147.1	151.5	153.7	162.5
85°	76.9	76.9	76.9	72.5	72.5
87.5°	43.9	43.9	37.3	30.7	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)