

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: P557707

Luminaire Tested: **FUSL-12-4-LD4-3HI-30-UNV-81-94-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: P557707
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-30-UNV-81-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

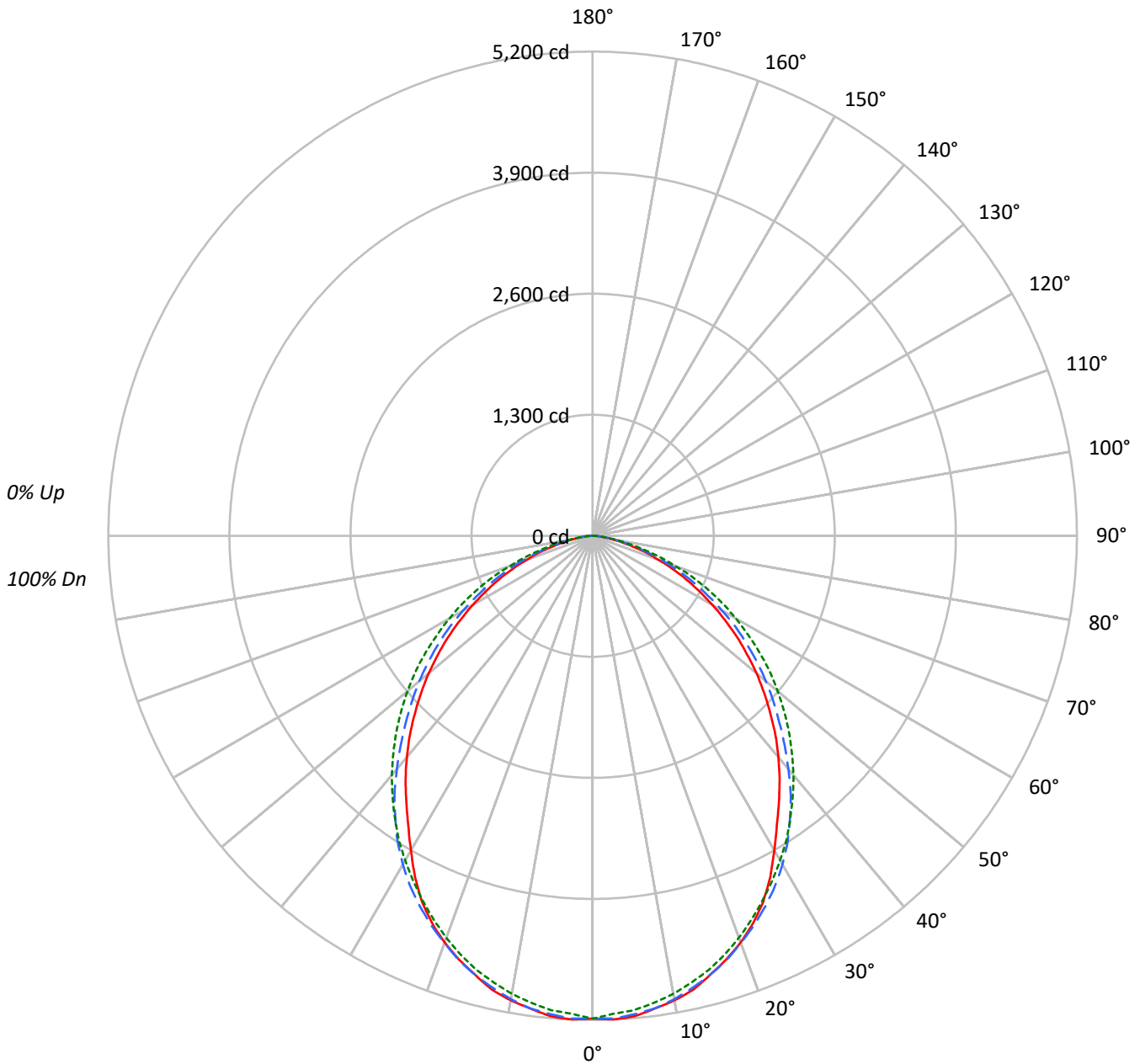
Lumens per Lamp: N/A
Luminaire Lumens: 11991.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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									
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°	13955	13955	13955
5°	13992	13933	13815
10°	13844	13805	13647
15°	13598	13598	13443
20°	13310	13327	13156
25°	12872	13031	12824
30°	12121	12666	12511
35°	11453	12140	12160
40°	10896	11484	11785
45°	10273	10789	11342
50°	9617	10167	10859
55°	8870	9459	10272
60°	7988	8632	9554
65°	7053	7675	8690
70°	5878	6537	7382
75°	4619	5219	5779
80°	3304	3674	4076
85°	2152	2152	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.3	4.1
10°-20°	1371.7	11.4
20°-30°	2004.4	16.7
30°-40°	2275.3	19.0
40°-50°	2196.4	18.3
50°-60°	1811.9	15.1
60°-70°	1206.6	10.1
70°-80°	539.9	4.5
80°-90°	96.6	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°	3864.4	32.2
0°-40°	6139.6	51.2
0°-60°	10147.9	84.6
0°-90°	11991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5186	5186	5186	5186	5186	
5°	5180	5178	5158	5130	5114	490
15°	4881	4893	4881	4859	4825	1376
25°	4335	4369	4389	4357	4319	1985
35°	3486	3534	3696	3716	3702	2184
45°	2700	2745	2835	2964	2980	2083
55°	1891	1922	2016	2128	2190	1687
65°	1108	1138	1205	1291	1365	1098
75°	444	468	502	526	556	486
85°	70	70	70	66	66	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5185.8	5185.8	5185.8	5185.8	5185.8
2.5°	5199.7	5201.7	5189.8	5157.9	5138.0
5°	5179.8	5177.8	5157.9	5130.0	5114.1
7.5°	5122.0	5126.0	5120.1	5080.2	5058.3
10°	5066.3	5068.3	5052.3	5020.4	4994.5
12.5°	4994.5	4992.6	4970.6	4954.7	4912.9
15°	4881.0	4892.9	4881.0	4859.1	4825.2
17.5°	4771.4	4771.4	4779.4	4741.5	4715.6
20°	4647.9	4653.9	4653.9	4624.0	4594.1
22.5°	4504.5	4522.4	4528.4	4496.5	4460.6
25°	4335.1	4369.0	4388.9	4357.0	4319.2
27.5°	4129.9	4181.7	4241.5	4217.6	4175.7
30°	3900.8	3976.5	4076.1	4056.2	4026.3
32.5°	3683.6	3759.4	3896.8	3888.9	3872.9
35°	3486.4	3534.2	3695.6	3715.5	3701.6
37.5°	3299.1	3343.0	3494.4	3540.2	3528.3
40°	3101.9	3149.7	3269.3	3350.9	3354.9
42.5°	2906.7	2952.5	3050.1	3167.7	3167.7
45°	2699.5	2745.3	2835.0	2964.5	2980.4
47.5°	2496.3	2544.1	2631.7	2761.2	2787.1
50°	2297.1	2340.9	2428.5	2554.1	2593.9
52.5°	2089.9	2137.7	2223.3	2338.9	2396.7
55°	1890.6	1922.5	2016.1	2127.7	2189.5
57.5°	1683.4	1713.3	1818.9	1914.5	1978.3
60°	1484.2	1522.1	1603.8	1701.4	1775.1
62.5°	1293.0	1332.8	1402.5	1488.2	1571.9
65°	1107.7	1137.6	1205.3	1291.0	1364.7
67.5°	928.4	954.3	1022.0	1081.8	1159.5
70°	747.1	781.0	830.8	888.5	938.3
72.5°	601.7	615.6	657.4	699.3	751.1
75°	444.3	468.2	502.0	526.0	555.8
77.5°	318.8	332.7	352.6	372.5	400.4
80°	213.2	219.1	237.1	241.1	263.0
82.5°	129.5	133.5	137.5	139.5	147.4
85°	69.7	69.7	69.7	65.7	65.7
87.5°	39.8	39.8	33.9	27.9	19.9
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)