

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: P555441

Luminaire Tested: **FUSL-12-2-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: P555441
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-12-2-LD4-3HI-35-UNV-80-84-EDD
Description: 2FT 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

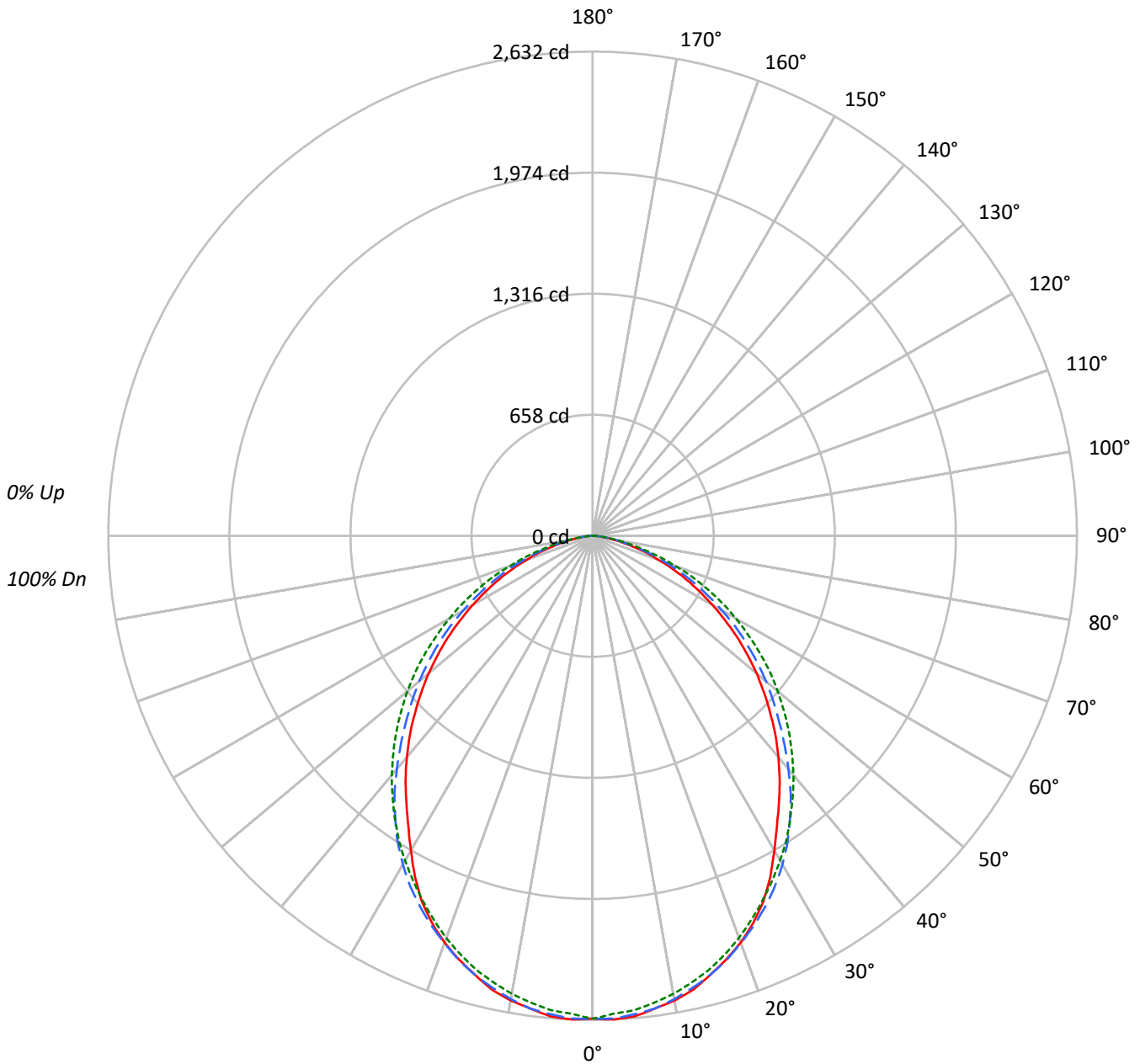
Lumens per Lamp: N/A
Luminaire Lumens: 6070.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	14128	14128	14128
5°	14166	14106	13986
10°	14015	13977	13817
15°	13767	13767	13610
20°	13475	13493	13320
25°	13032	13193	12984
30°	12271	12823	12666
35°	11596	12291	12311
40°	11032	11627	11932
45°	10401	10923	11483
50°	9736	10294	10994
55°	8981	9576	10399
60°	8087	8738	9672
65°	7140	7769	8797
70°	5951	6617	7475
75°	4677	5284	5852
80°	3344	3719	4125
85°	2180	2180	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	4.1
10°-20°	694.3	11.4
20°-30°	1014.7	16.7
30°-40°	1151.8	19.0
40°-50°	1111.8	18.3
50°-60°	917.2	15.1
60°-70°	610.8	10.1
70°-80°	273.3	4.5
80°-90°	48.9	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°	1956.2	32.2
0°-40°	3107.9	51.2
0°-60°	5137.0	84.6
0°-90°	6070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2622	2621	2611	2597	2589	248
15°	2471	2477	2471	2460	2443	697
25°	2194	2212	2222	2206	2186	1005
35°	1765	1789	1871	1881	1874	1106
45°	1366	1390	1435	1501	1509	1054
55°	957	973	1021	1077	1108	854
65°	561	576	610	654	691	556
75°	225	237	254	266	281	246
85°	35	35	35	33	33	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2625.1	2625.1	2625.1	2625.1	2625.1
2.5°	2632.2	2633.2	2627.1	2611.0	2600.9
5°	2622.1	2621.1	2611.0	2596.9	2588.8
7.5°	2592.8	2594.9	2591.8	2571.7	2560.6
10°	2564.6	2565.6	2557.5	2541.4	2528.3
12.5°	2528.3	2527.3	2516.2	2508.1	2487.0
15°	2470.8	2476.9	2470.8	2459.7	2442.6
17.5°	2415.4	2415.4	2419.4	2400.2	2387.1
20°	2352.8	2355.8	2355.8	2340.7	2325.6
22.5°	2280.2	2289.3	2292.3	2276.2	2258.0
25°	2194.5	2211.6	2221.7	2205.6	2186.4
27.5°	2090.6	2116.8	2147.1	2135.0	2113.8
30°	1974.6	2013.0	2063.4	2053.3	2038.2
32.5°	1864.7	1903.0	1972.6	1968.6	1960.5
35°	1764.9	1789.1	1870.8	1880.8	1873.8
37.5°	1670.1	1692.3	1768.9	1792.1	1786.0
40°	1570.2	1594.4	1654.9	1696.3	1698.3
42.5°	1471.4	1494.6	1544.0	1603.5	1603.5
45°	1366.5	1389.7	1435.1	1500.6	1508.7
47.5°	1263.6	1287.9	1332.2	1397.8	1410.9
50°	1162.8	1185.0	1229.4	1292.9	1313.1
52.5°	1057.9	1082.1	1125.5	1184.0	1213.2
55°	957.1	973.2	1020.6	1077.1	1108.3
57.5°	852.2	867.3	920.8	969.2	1001.4
60°	751.3	770.5	811.8	861.3	898.6
62.5°	654.5	674.7	710.0	753.3	795.7
65°	560.7	575.9	610.1	653.5	690.8
67.5°	470.0	483.1	517.4	547.6	586.9
70°	378.2	395.3	420.5	449.8	475.0
72.5°	304.6	311.6	332.8	354.0	380.2
75°	224.9	237.0	254.1	266.2	281.4
77.5°	161.4	168.4	178.5	188.6	202.7
80°	107.9	110.9	120.0	122.0	133.1
82.5°	65.6	67.6	69.6	70.6	74.6
85°	35.3	35.3	35.3	33.3	33.3
87.5°	20.2	20.2	17.1	14.1	10.1
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)