

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: P555569

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-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: P555569
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-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

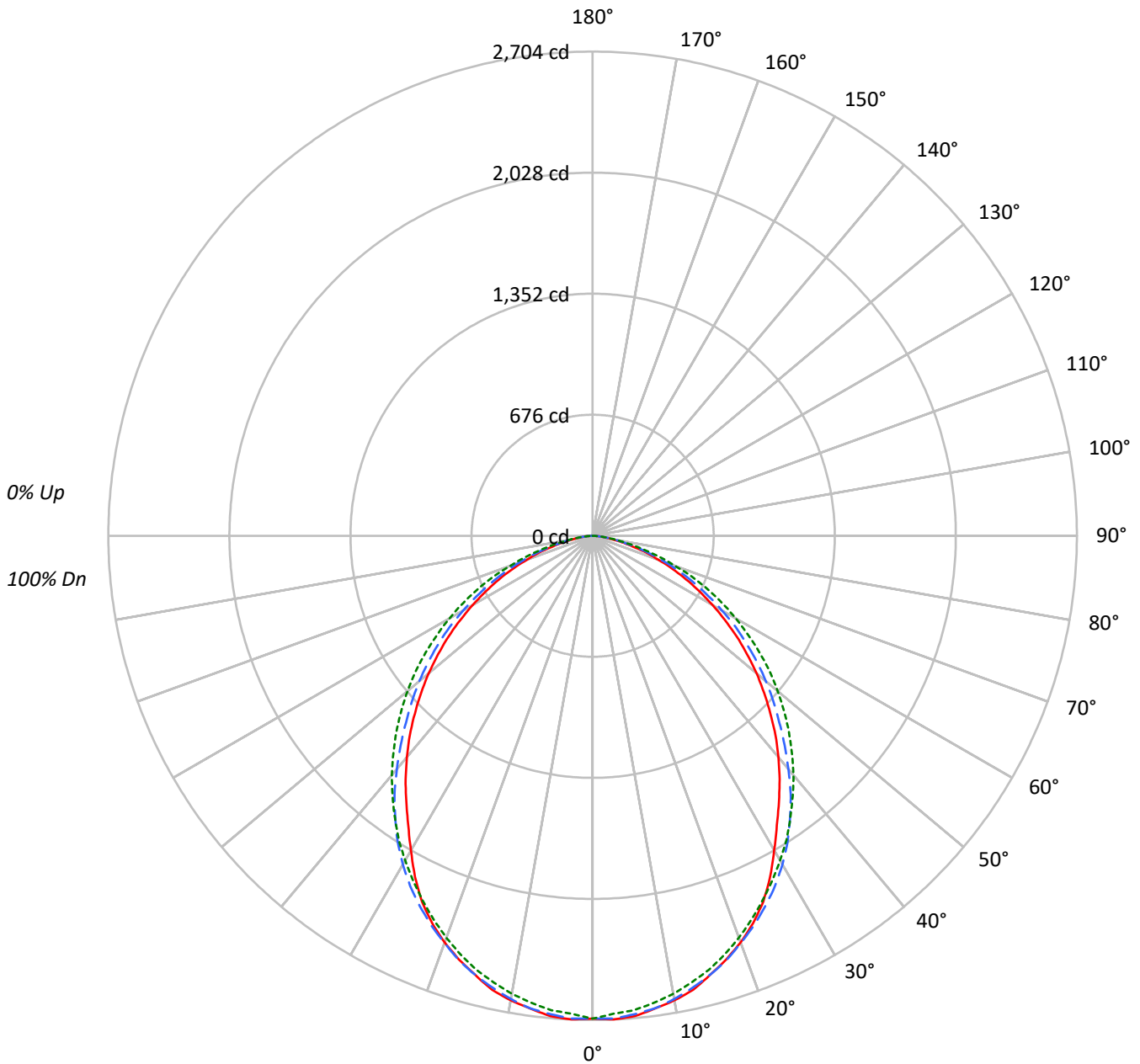
Lumens per Lamp: N/A
Luminaire Lumens: 6235.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	14512	14512	14512
5°	14551	14490	14366
10°	14396	14357	14193
15°	14141	14141	13980
20°	13842	13860	13682
25°	13386	13552	13337
30°	12605	13172	13011
35°	11910	12625	12646
40°	11332	11943	12256
45°	10684	11220	11795
50°	10001	10573	11293
55°	9225	9836	10683
60°	8308	8976	9935
65°	7335	7981	9037
70°	6113	6798	7677
75°	4803	5427	6010
80°	3434	3821	4237
85°	2242	2242	2112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	4.1
10°-20°	713.2	11.4
20°-30°	1042.3	16.7
30°-40°	1183.1	19.0
40°-50°	1142.1	18.3
50°-60°	942.1	15.1
60°-70°	627.4	10.1
70°-80°	280.7	4.5
80°-90°	50.2	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°	2009.4	32.2
0°-40°	3192.4	51.2
0°-60°	5276.7	84.6
0°-90°	6235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2696	2696	2696	2696	2696	
5°	2693	2692	2682	2668	2659	255
15°	2538	2544	2538	2527	2509	715
25°	2254	2272	2282	2266	2246	1032
35°	1813	1838	1922	1932	1925	1136
45°	1404	1428	1474	1541	1550	1083
55°	983	1000	1048	1106	1138	877
65°	576	592	627	671	710	571
75°	231	243	261	274	289	253
85°	36	36	36	34	34	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2696.5	2696.5	2696.5	2696.5	2696.5
2.5°	2703.7	2704.8	2698.5	2682.0	2671.6
5°	2693.4	2692.3	2682.0	2667.5	2659.2
7.5°	2663.3	2665.4	2662.3	2641.6	2630.2
10°	2634.3	2635.4	2627.1	2610.5	2597.0
12.5°	2597.0	2596.0	2584.6	2576.3	2554.6
15°	2538.0	2544.2	2538.0	2526.6	2509.0
17.5°	2481.0	2481.0	2485.2	2465.5	2452.0
20°	2416.8	2419.9	2419.9	2404.3	2388.8
22.5°	2342.2	2351.5	2354.6	2338.1	2319.4
25°	2254.1	2271.8	2282.1	2265.5	2245.9
27.5°	2147.4	2174.4	2205.5	2193.0	2171.3
30°	2028.3	2067.7	2119.5	2109.1	2093.6
32.5°	1915.4	1954.8	2026.2	2022.1	2013.8
35°	1812.8	1837.7	1921.6	1932.0	1924.7
37.5°	1715.5	1738.3	1817.0	1840.8	1834.6
40°	1612.9	1637.8	1699.9	1742.4	1744.5
42.5°	1511.4	1535.2	1586.0	1647.1	1647.1
45°	1403.7	1427.5	1474.1	1541.4	1549.7
47.5°	1298.0	1322.9	1368.4	1435.8	1449.2
50°	1194.4	1217.2	1262.8	1328.0	1348.8
52.5°	1086.7	1111.5	1156.1	1216.2	1246.2
55°	983.1	999.7	1048.3	1106.4	1138.5
57.5°	875.3	890.9	945.8	995.5	1028.7
60°	771.8	791.4	833.9	884.7	923.0
62.5°	672.3	693.0	729.3	773.8	817.3
65°	576.0	591.5	626.7	671.3	709.6
67.5°	482.7	496.2	531.4	562.5	602.9
70°	388.5	406.1	432.0	462.0	487.9
72.5°	312.8	320.1	341.9	363.6	390.5
75°	231.0	243.4	261.0	273.5	289.0
77.5°	165.7	173.0	183.4	193.7	208.2
80°	110.8	114.0	123.3	125.3	136.7
82.5°	67.3	69.4	71.5	72.5	76.7
85°	36.3	36.3	36.3	34.2	34.2
87.5°	20.7	20.7	17.6	14.5	10.4
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)