

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: P555449

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-88-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: P555449
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

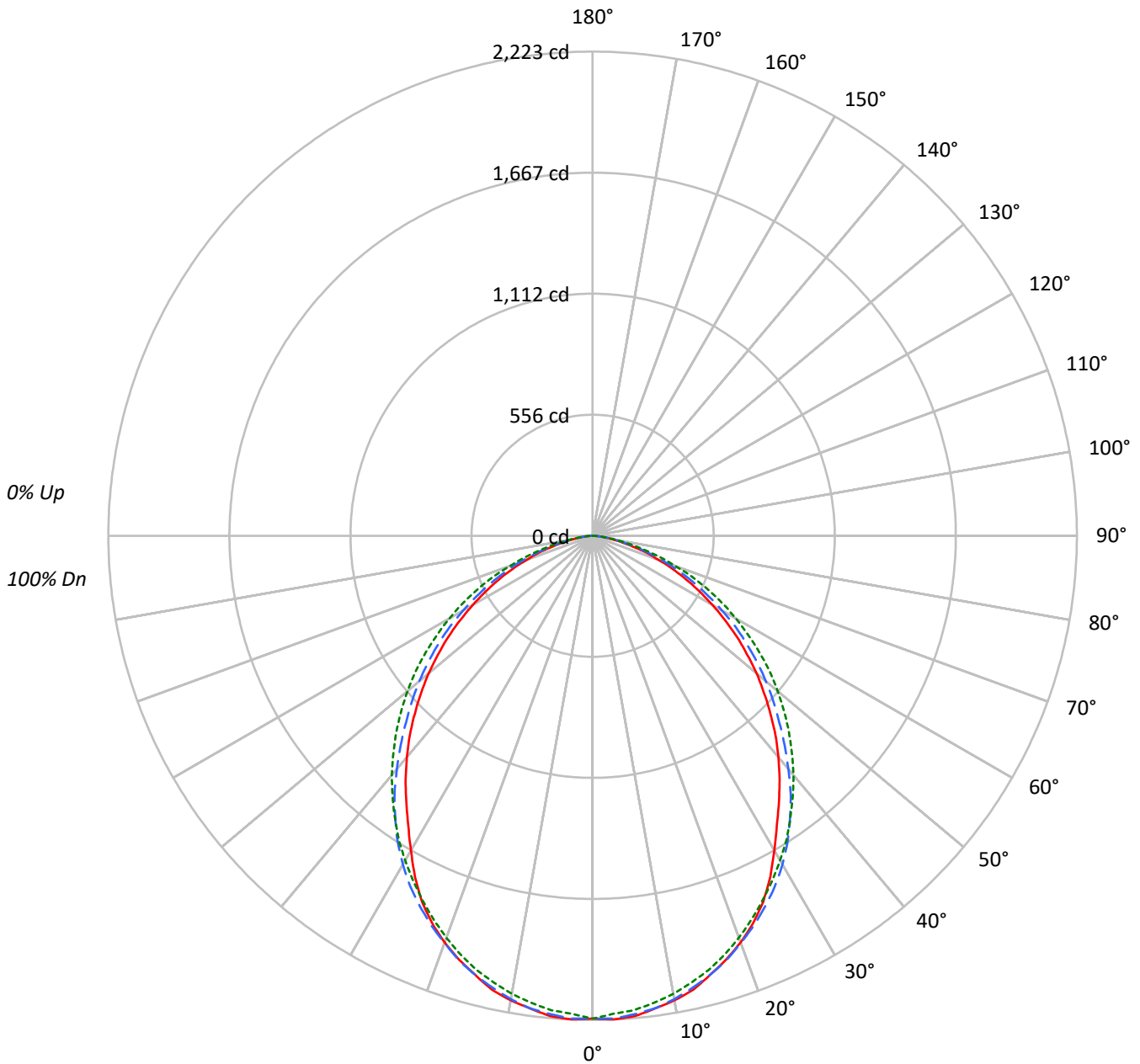
Lumens per Lamp: N/A
Luminaire Lumens: 5126.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11931	11931	11931
5°	11963	11912	11811
10°	11836	11803	11668
15°	11626	11626	11493
20°	11380	11395	11248
25°	11005	11142	10965
30°	10363	10829	10696
35°	9792	10380	10397
40°	9316	9819	10076
45°	8783	9224	9697
50°	8222	8693	9285
55°	7583	8087	8783
60°	6830	7380	8168
65°	6030	6562	7429
70°	5026	5588	6312
75°	3949	4462	4941
80°	2824	3140	3484
85°	1840	1840	1735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	4.1
10°-20°	586.4	11.4
20°-30°	856.9	16.7
30°-40°	972.6	19.0
40°-50°	938.9	18.3
50°-60°	774.6	15.1
60°-70°	515.8	10.1
70°-80°	230.8	4.5
80°-90°	41.3	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°	1652.0	32.2
0°-40°	2624.6	51.2
0°-60°	4338.1	84.6
0°-90°	5126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5126.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2217	2217	2217	2217	2217	
5°	2214	2214	2205	2193	2186	210
15°	2087	2092	2087	2077	2063	588
25°	1853	1868	1876	1863	1846	849
35°	1490	1511	1580	1588	1582	934
45°	1154	1174	1212	1267	1274	890
55°	808	822	862	910	936	721
65°	474	486	515	552	583	470
75°	190	200	215	225	238	208
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2216.9	2216.9	2216.9	2216.9	2216.9
2.5°	2222.8	2223.7	2218.6	2204.9	2196.4
5°	2214.3	2213.5	2204.9	2193.0	2186.2
7.5°	2189.6	2191.3	2188.8	2171.7	2162.4
10°	2165.8	2166.6	2159.8	2146.2	2135.1
12.5°	2135.1	2134.3	2124.9	2118.1	2100.2
15°	2086.6	2091.7	2086.6	2077.2	2062.7
17.5°	2039.7	2039.7	2043.1	2026.9	2015.9
20°	1986.9	1989.5	1989.5	1976.7	1963.9
22.5°	1925.6	1933.3	1935.8	1922.2	1906.9
25°	1853.2	1867.7	1876.2	1862.6	1846.4
27.5°	1765.5	1787.6	1813.2	1803.0	1785.1
30°	1667.5	1699.9	1742.5	1734.0	1721.2
32.5°	1574.7	1607.1	1665.8	1662.4	1655.6
35°	1490.4	1510.8	1579.8	1588.3	1582.4
37.5°	1410.3	1429.1	1493.8	1513.4	1508.3
40°	1326.0	1346.5	1397.6	1432.5	1434.2
42.5°	1242.6	1262.2	1303.9	1354.1	1354.1
45°	1154.0	1173.6	1211.9	1267.3	1274.1
47.5°	1067.1	1087.6	1125.0	1180.4	1191.5
50°	982.0	1000.7	1038.2	1091.8	1108.9
52.5°	893.4	913.8	950.4	999.8	1024.5
55°	808.2	821.8	861.9	909.6	936.0
57.5°	719.6	732.4	777.6	818.4	845.7
60°	634.5	650.7	685.6	727.3	758.8
62.5°	552.7	569.8	599.6	636.2	672.0
65°	473.5	486.3	515.3	551.9	583.4
67.5°	396.9	407.9	436.9	462.4	495.7
70°	319.4	333.8	355.1	379.8	401.1
72.5°	257.2	263.2	281.0	298.9	321.1
75°	189.9	200.1	214.6	224.8	237.6
77.5°	136.3	142.2	150.7	159.3	171.2
80°	91.1	93.7	101.3	103.1	112.4
82.5°	55.4	57.1	58.8	59.6	63.0
85°	29.8	29.8	29.8	28.1	28.1
87.5°	17.0	17.0	14.5	11.9	8.5
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)