

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: P556081

Luminaire Tested: **FUSL-12-2-LD4-3STD-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: P556081
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-LD4-3STD-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

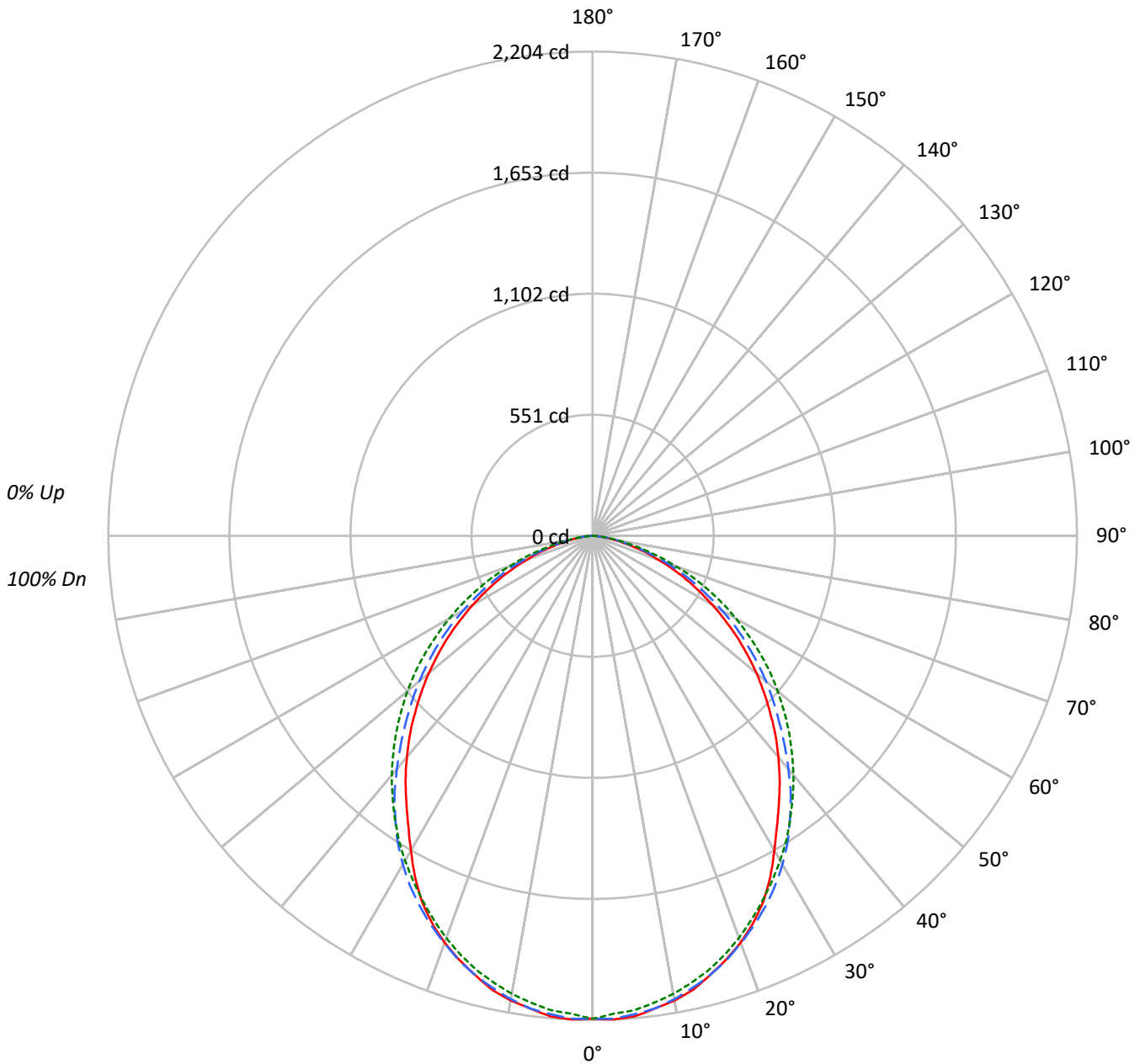
Lumens per Lamp: N/A
Luminaire Lumens: 5083.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	11831	11831	11831
5°	11862	11812	11712
10°	11737	11704	11570
15°	11529	11529	11397
20°	11284	11299	11153
25°	10913	11048	10872
30°	10276	10738	10607
35°	9710	10293	10309
40°	9238	9736	9992
45°	8710	9146	9616
50°	8153	8620	9207
55°	7520	8019	8709
60°	6773	7317	8100
65°	5979	6506	7367
70°	4984	5542	6260
75°	3916	4425	4899
80°	2802	3115	3456
85°	1828	1828	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	4.1
10°-20°	581.4	11.4
20°-30°	849.7	16.7
30°-40°	964.5	19.0
40°-50°	931.1	18.3
50°-60°	768.1	15.1
60°-70°	511.5	10.1
70°-80°	228.9	4.5
80°-90°	41.0	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°	1638.1	32.2
0°-40°	2602.6	51.2
0°-60°	4301.7	84.6
0°-90°	5083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2196	2195	2186	2175	2168	208
15°	2069	2074	2069	2060	2045	583
25°	1838	1852	1860	1847	1831	842
35°	1478	1498	1567	1575	1569	926
45°	1144	1164	1202	1257	1263	883
55°	801	815	855	902	928	715
65°	470	482	511	547	578	466
75°	188	198	213	223	236	206
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°	2198.3	2198.3	2198.3	2198.3	2198.3
2.5°	2204.2	2205.0	2200.0	2186.4	2178.0
5°	2195.7	2194.9	2186.4	2174.6	2167.9
7.5°	2171.2	2172.9	2170.4	2153.5	2144.2
10°	2147.6	2148.4	2141.7	2128.2	2117.2
12.5°	2117.2	2116.3	2107.1	2100.3	2082.6
15°	2069.1	2074.1	2069.1	2059.8	2045.4
17.5°	2022.6	2022.6	2026.0	2009.9	1999.0
20°	1970.2	1972.8	1972.8	1960.1	1947.4
22.5°	1909.4	1917.0	1919.6	1906.1	1890.9
25°	1837.7	1852.0	1860.5	1846.9	1830.9
27.5°	1750.7	1772.6	1798.0	1787.8	1770.1
30°	1653.6	1685.6	1727.9	1719.4	1706.8
32.5°	1561.5	1593.6	1651.9	1648.5	1641.7
35°	1477.9	1498.2	1566.6	1575.0	1569.1
37.5°	1398.5	1417.1	1481.3	1500.7	1495.6
40°	1314.9	1335.2	1385.8	1420.5	1422.2
42.5°	1232.1	1251.6	1292.9	1342.8	1342.8
45°	1144.3	1163.7	1201.7	1256.6	1263.4
47.5°	1058.2	1078.4	1115.6	1170.5	1181.5
50°	973.7	992.3	1029.5	1082.7	1099.6
52.5°	885.9	906.2	942.5	991.5	1015.9
55°	801.4	815.0	854.6	901.9	928.1
57.5°	713.6	726.3	771.0	811.6	838.6
60°	629.2	645.2	679.8	721.2	752.5
62.5°	548.1	565.0	594.5	630.9	666.3
65°	469.5	482.2	510.9	547.2	578.5
67.5°	393.5	404.5	433.2	458.6	491.5
70°	316.7	331.0	352.2	376.7	397.8
72.5°	255.0	261.0	278.7	296.4	318.4
75°	188.3	198.5	212.8	223.0	235.6
77.5°	135.1	141.0	149.5	157.9	169.7
80°	90.4	92.9	100.5	102.2	111.5
82.5°	54.9	56.6	58.3	59.1	62.5
85°	29.6	29.6	29.6	27.9	27.9
87.5°	16.9	16.9	14.4	11.8	8.4
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)