

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: P556001

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-93-84-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: P556001
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-35-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

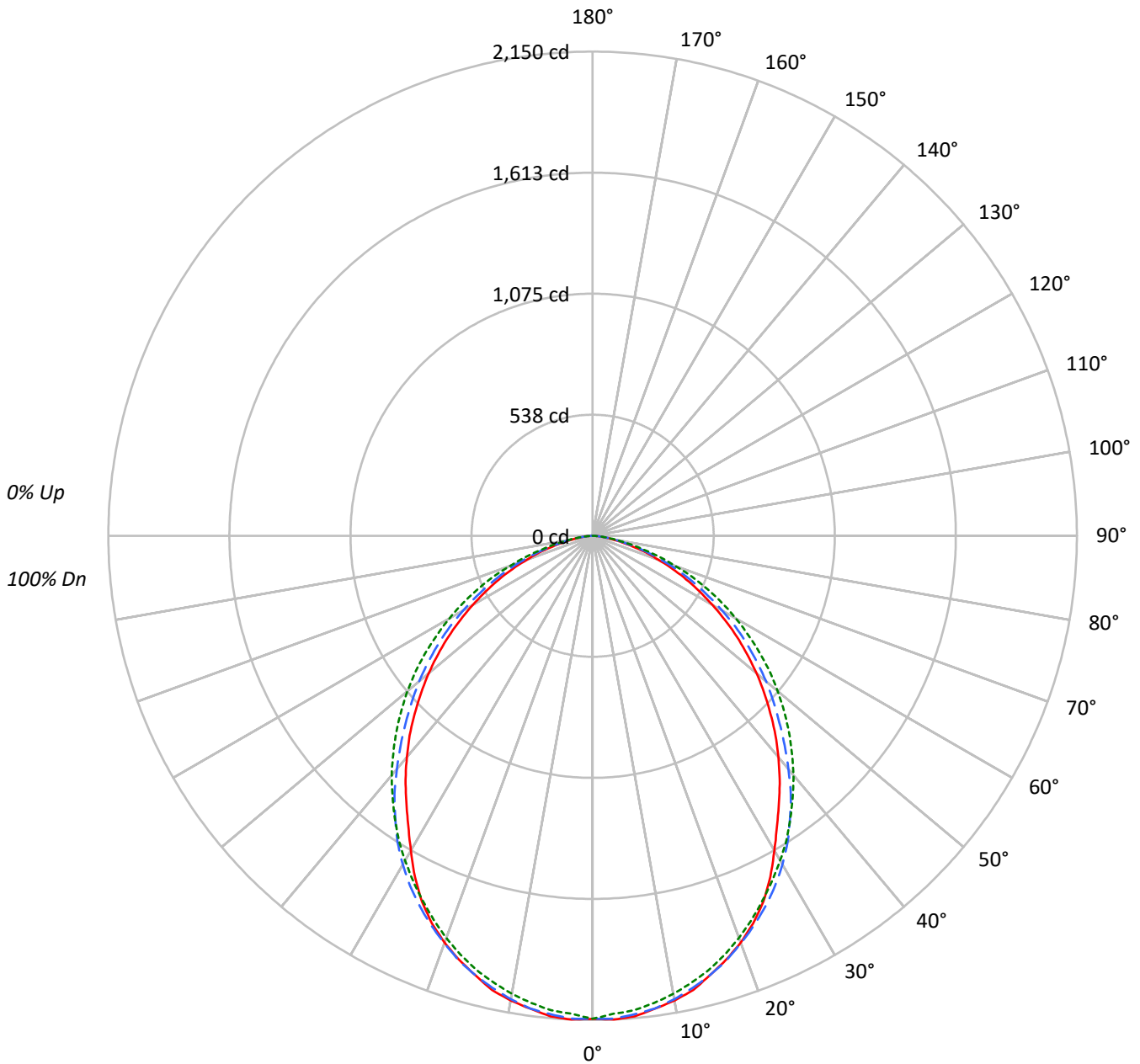
Lumens per Lamp: N/A
Luminaire Lumens: 4959.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

TEST NUMBER: P556001

CATALOG NUMBER: FUSL-12-2-LD4-3STD-35-UNV-93-84-EDD

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°	11542	11542	11542
5°	11573	11524	11426
10°	11450	11419	11288
15°	11247	11247	11119
20°	11009	11023	10881
25°	10646	10779	10607
30°	10025	10476	10348
35°	9473	10042	10058
40°	9012	9499	9748
45°	8497	8923	9382
50°	7954	8409	8982
55°	7337	7824	8496
60°	6607	7139	7902
65°	5834	6348	7188
70°	4862	5407	6107
75°	3820	4317	4781
80°	2734	3037	3372
85°	1778	1778	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	4.1
10°-20°	567.3	11.4
20°-30°	829.0	16.7
30°-40°	941.0	19.0
40°-50°	908.3	18.3
50°-60°	749.3	15.1
60°-70°	499.0	10.1
70°-80°	223.3	4.5
80°-90°	39.9	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°	1598.1	32.2
0°-40°	2539.1	51.2
0°-60°	4196.8	84.6
0°-90°	4959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2145	2145	2145	2145	2145	
5°	2142	2141	2133	2122	2115	203
15°	2019	2024	2019	2010	1996	569
25°	1793	1807	1815	1802	1786	821
35°	1442	1462	1528	1537	1531	903
45°	1116	1135	1172	1226	1233	861
55°	782	795	834	880	906	698
65°	458	470	498	534	564	454
75°	184	194	208	218	230	201
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2144.6	2144.6	2144.6	2144.6	2144.6
2.5°	2150.4	2151.2	2146.3	2133.1	2124.9
5°	2142.2	2141.3	2133.1	2121.6	2115.0
7.5°	2118.3	2119.9	2117.5	2101.0	2091.9
10°	2095.2	2096.0	2089.4	2076.3	2065.5
12.5°	2065.5	2064.7	2055.7	2049.1	2031.8
15°	2018.6	2023.5	2018.6	2009.5	1995.5
17.5°	1973.3	1973.3	1976.6	1960.9	1950.2
20°	1922.2	1924.7	1924.7	1912.3	1899.9
22.5°	1862.9	1870.3	1872.7	1859.6	1844.7
25°	1792.8	1806.8	1815.1	1801.9	1786.2
27.5°	1708.0	1729.4	1754.1	1744.2	1726.9
30°	1613.2	1644.5	1685.7	1677.5	1665.1
32.5°	1523.4	1554.7	1611.6	1608.3	1601.7
35°	1441.8	1461.6	1528.4	1536.6	1530.8
37.5°	1364.4	1382.5	1445.1	1464.1	1459.1
40°	1282.8	1302.6	1352.0	1385.8	1387.5
42.5°	1202.1	1221.0	1261.4	1310.0	1310.0
45°	1116.4	1135.3	1172.4	1226.0	1232.6
47.5°	1032.4	1052.1	1088.4	1141.9	1152.7
50°	950.0	968.1	1004.3	1056.3	1072.7
52.5°	864.3	884.1	919.5	967.3	991.2
55°	781.9	795.1	833.8	879.9	905.5
57.5°	696.2	708.6	752.2	791.8	818.1
60°	613.8	629.5	663.2	703.6	734.1
62.5°	534.7	551.2	580.0	615.5	650.1
65°	458.1	470.5	498.5	533.9	564.4
67.5°	383.9	394.7	422.7	447.4	479.5
70°	309.0	323.0	343.6	367.5	388.1
72.5°	248.8	254.6	271.9	289.2	310.6
75°	183.7	193.6	207.6	217.5	229.9
77.5°	131.8	137.6	145.8	154.1	165.6
80°	88.2	90.6	98.0	99.7	108.8
82.5°	53.6	55.2	56.8	57.7	61.0
85°	28.8	28.8	28.8	27.2	27.2
87.5°	16.5	16.5	14.0	11.5	8.2
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)