

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: P556101

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-81-86-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: P556101
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

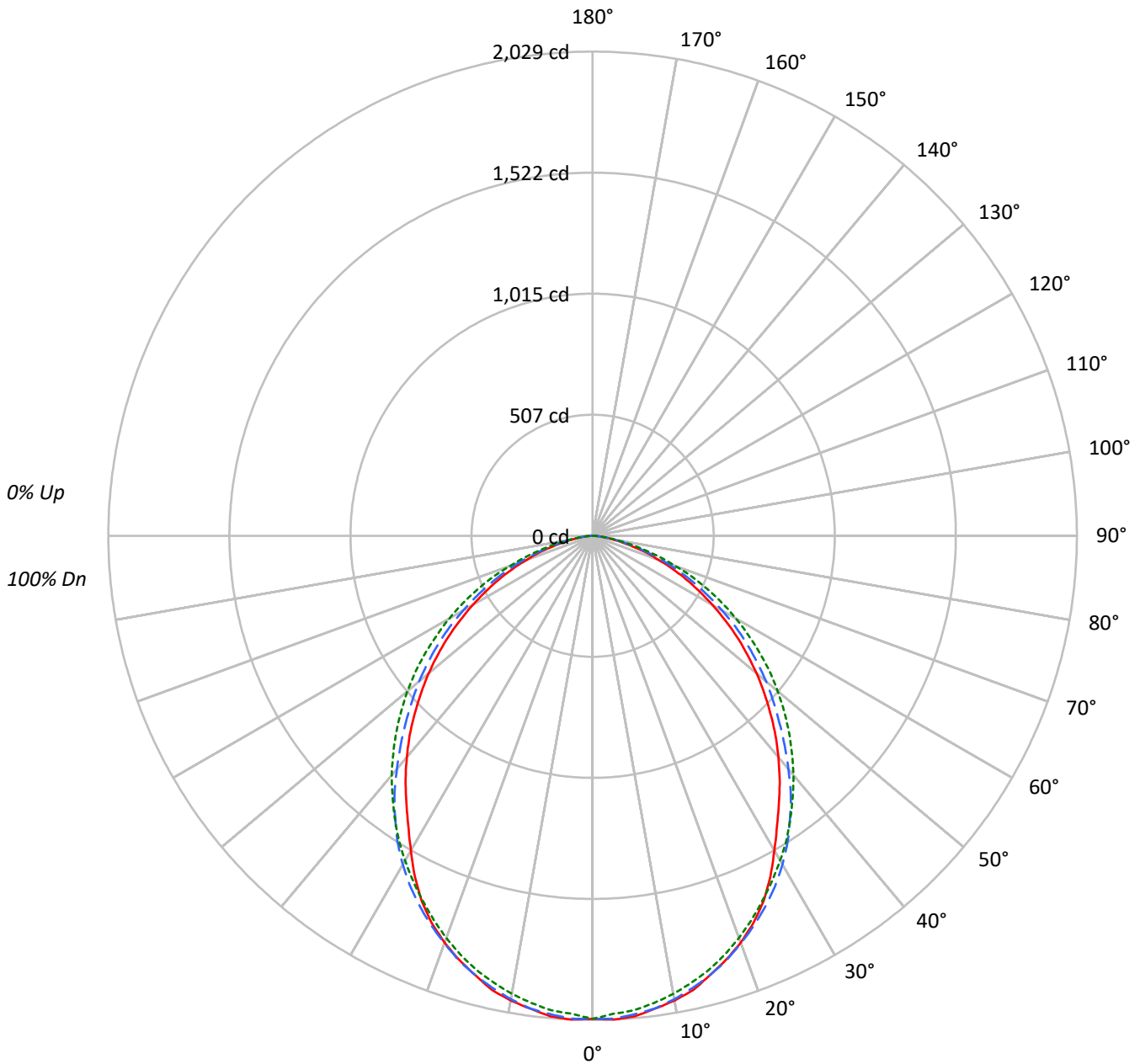
Lumens per Lamp: N/A
Luminaire Lumens: 4680.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10893	10893	10893
5°	10922	10876	10783
10°	10806	10776	10653
15°	10614	10614	10493
20°	10389	10403	10269
25°	10048	10172	10010
30°	9462	9887	9766
35°	8940	9477	9492
40°	8506	8965	9199
45°	8019	8422	8853
50°	7506	7936	8477
55°	6924	7384	8018
60°	6236	6737	7457
65°	5505	5990	6783
70°	4589	5102	5762
75°	3606	4074	4510
80°	2579	2867	3180
85°	1680	1680	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	4.1
10°-20°	535.3	11.4
20°-30°	782.3	16.7
30°-40°	888.0	19.0
40°-50°	857.2	18.3
50°-60°	707.2	15.1
60°-70°	470.9	10.1
70°-80°	210.7	4.5
80°-90°	37.7	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°	1508.2	32.2
0°-40°	2396.2	51.2
0°-60°	3960.6	84.6
0°-90°	4680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2024	2024	2024	2024	2024	
5°	2022	2021	2013	2002	1996	191
15°	1905	1910	1905	1896	1883	537
25°	1692	1705	1713	1700	1686	775
35°	1361	1379	1442	1450	1445	853
45°	1054	1072	1106	1157	1163	813
55°	738	750	787	830	854	659
65°	432	444	470	504	533	429
75°	173	183	196	205	217	190
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2024.0	2024.0	2024.0	2024.0	2024.0
2.5°	2029.4	2030.2	2025.5	2013.1	2005.3
5°	2021.6	2020.9	2013.1	2002.2	1996.0
7.5°	1999.1	2000.7	1998.3	1982.8	1974.2
10°	1977.3	1978.1	1971.9	1959.4	1949.3
12.5°	1949.3	1948.6	1940.0	1933.8	1917.5
15°	1905.0	1909.7	1905.0	1896.5	1883.2
17.5°	1862.2	1862.2	1865.4	1850.6	1840.5
20°	1814.0	1816.4	1816.4	1804.7	1793.0
22.5°	1758.1	1765.1	1767.4	1754.9	1740.9
25°	1692.0	1705.2	1713.0	1700.5	1685.7
27.5°	1611.9	1632.1	1655.4	1646.1	1629.8
30°	1522.5	1552.0	1590.9	1583.1	1571.4
32.5°	1437.7	1467.2	1520.9	1517.8	1511.6
35°	1360.7	1379.4	1442.4	1450.1	1444.7
37.5°	1287.6	1304.7	1363.8	1381.7	1377.1
40°	1210.7	1229.3	1276.0	1307.8	1309.4
42.5°	1134.5	1152.3	1190.4	1236.3	1236.3
45°	1053.6	1071.5	1106.5	1157.0	1163.2
47.5°	974.3	992.9	1027.2	1077.7	1087.8
50°	896.5	913.6	947.8	996.8	1012.4
52.5°	815.7	834.3	867.8	912.9	935.4
55°	737.9	750.3	786.9	830.4	854.5
57.5°	657.0	668.7	709.9	747.2	772.1
60°	579.3	594.1	625.9	664.0	692.8
62.5°	504.6	520.2	547.4	580.8	613.5
65°	432.3	444.0	470.4	503.9	532.6
67.5°	362.3	372.4	398.9	422.2	452.5
70°	291.6	304.8	324.2	346.8	366.2
72.5°	234.8	240.3	256.6	272.9	293.1
75°	173.4	182.7	195.9	205.3	216.9
77.5°	124.4	129.9	137.6	145.4	156.3
80°	83.2	85.5	92.5	94.1	102.6
82.5°	50.5	52.1	53.7	54.4	57.5
85°	27.2	27.2	27.2	25.7	25.7
87.5°	15.6	15.6	13.2	10.9	7.8
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)