

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: P556141

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-93-96-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: P556141
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-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

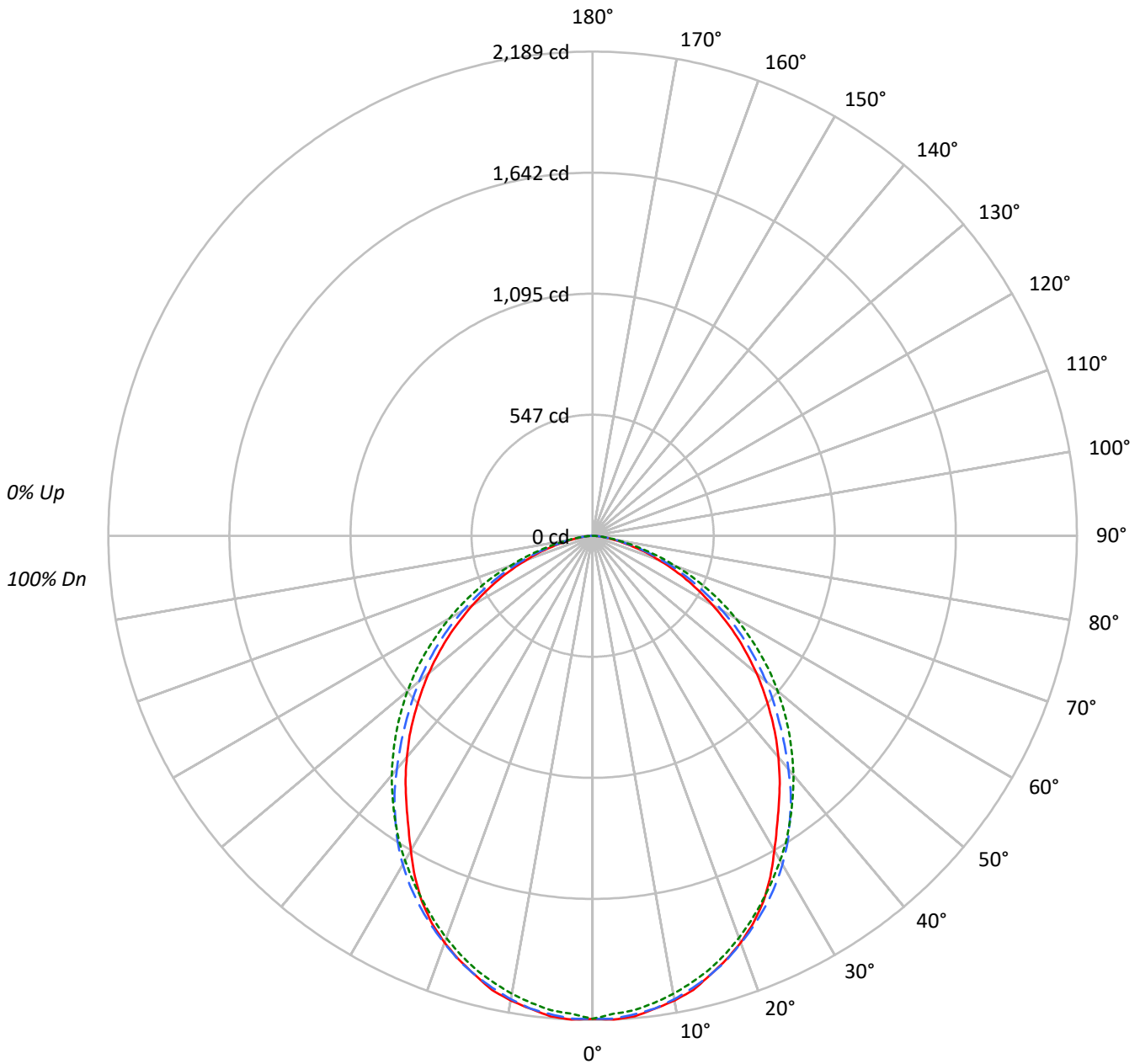
Lumens per Lamp: N/A
Luminaire Lumens: 5049.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	11752	11752	11752
5°	11783	11733	11634
10°	11658	11626	11493
15°	11451	11451	11320
20°	11209	11223	11079
25°	10840	10974	10800
30°	10207	10666	10536
35°	9645	10224	10240
40°	9176	9672	9924
45°	8652	9086	9551
50°	8098	8562	9145
55°	7470	7965	8650
60°	6727	7269	8045
65°	5940	6463	7317
70°	4950	5504	6217
75°	3891	4396	4866
80°	2783	3093	3431
85°	1815	1815	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	4.1
10°-20°	577.6	11.4
20°-30°	844.0	16.7
30°-40°	958.0	19.0
40°-50°	924.8	18.3
50°-60°	762.9	15.1
60°-70°	508.0	10.1
70°-80°	227.3	4.5
80°-90°	40.7	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°	1627.1	32.2
0°-40°	2585.2	51.2
0°-60°	4272.9	84.6
0°-90°	5049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2181	2180	2172	2160	2153	206
15°	2055	2060	2055	2046	2032	579
25°	1825	1840	1848	1835	1819	836
35°	1468	1488	1556	1564	1559	920
45°	1137	1156	1194	1248	1255	877
55°	796	810	849	896	922	711
65°	466	479	508	544	575	462
75°	187	197	211	222	234	205
85°	29	29	29	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2183.6	2183.6	2183.6	2183.6	2183.6
2.5°	2189.4	2190.3	2185.2	2171.8	2163.4
5°	2181.0	2180.2	2171.8	2160.1	2153.4
7.5°	2156.7	2158.4	2155.9	2139.1	2129.9
10°	2133.2	2134.1	2127.4	2113.9	2103.0
12.5°	2103.0	2102.2	2093.0	2086.3	2068.6
15°	2055.2	2060.2	2055.2	2046.0	2031.7
17.5°	2009.1	2009.1	2012.4	1996.5	1985.6
20°	1957.1	1959.6	1959.6	1947.0	1934.4
22.5°	1896.7	1904.2	1906.7	1893.3	1878.2
25°	1825.4	1839.6	1848.0	1834.6	1818.7
27.5°	1739.0	1760.8	1785.9	1775.9	1758.3
30°	1642.5	1674.4	1716.3	1707.9	1695.3
32.5°	1551.1	1582.9	1640.8	1637.5	1630.8
35°	1468.0	1488.1	1556.1	1564.5	1558.6
37.5°	1389.2	1407.6	1471.4	1490.7	1485.6
40°	1306.1	1326.2	1376.6	1411.0	1412.6
42.5°	1223.9	1243.2	1284.3	1333.8	1333.8
45°	1136.7	1156.0	1193.7	1248.2	1254.9
47.5°	1051.1	1071.2	1108.1	1162.7	1173.6
50°	967.2	985.7	1022.6	1075.4	1092.2
52.5°	880.0	900.1	936.2	984.8	1009.2
55°	796.1	809.5	848.9	895.9	921.9
57.5°	708.8	721.4	765.9	806.1	833.0
60°	625.0	640.9	675.3	716.4	747.4
62.5°	544.4	561.2	590.6	626.6	661.9
65°	466.4	479.0	507.5	543.6	574.6
67.5°	390.9	401.8	430.3	455.5	488.2
70°	314.6	328.8	349.8	374.1	395.1
72.5°	253.3	259.2	276.8	294.4	316.3
75°	187.1	197.1	211.4	221.5	234.0
77.5°	134.2	140.1	148.5	156.9	168.6
80°	89.8	92.3	99.8	101.5	110.7
82.5°	54.5	56.2	57.9	58.7	62.1
85°	29.4	29.4	29.4	27.7	27.7
87.5°	16.8	16.8	14.3	11.7	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)