

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: P556095

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-97-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: P556095
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

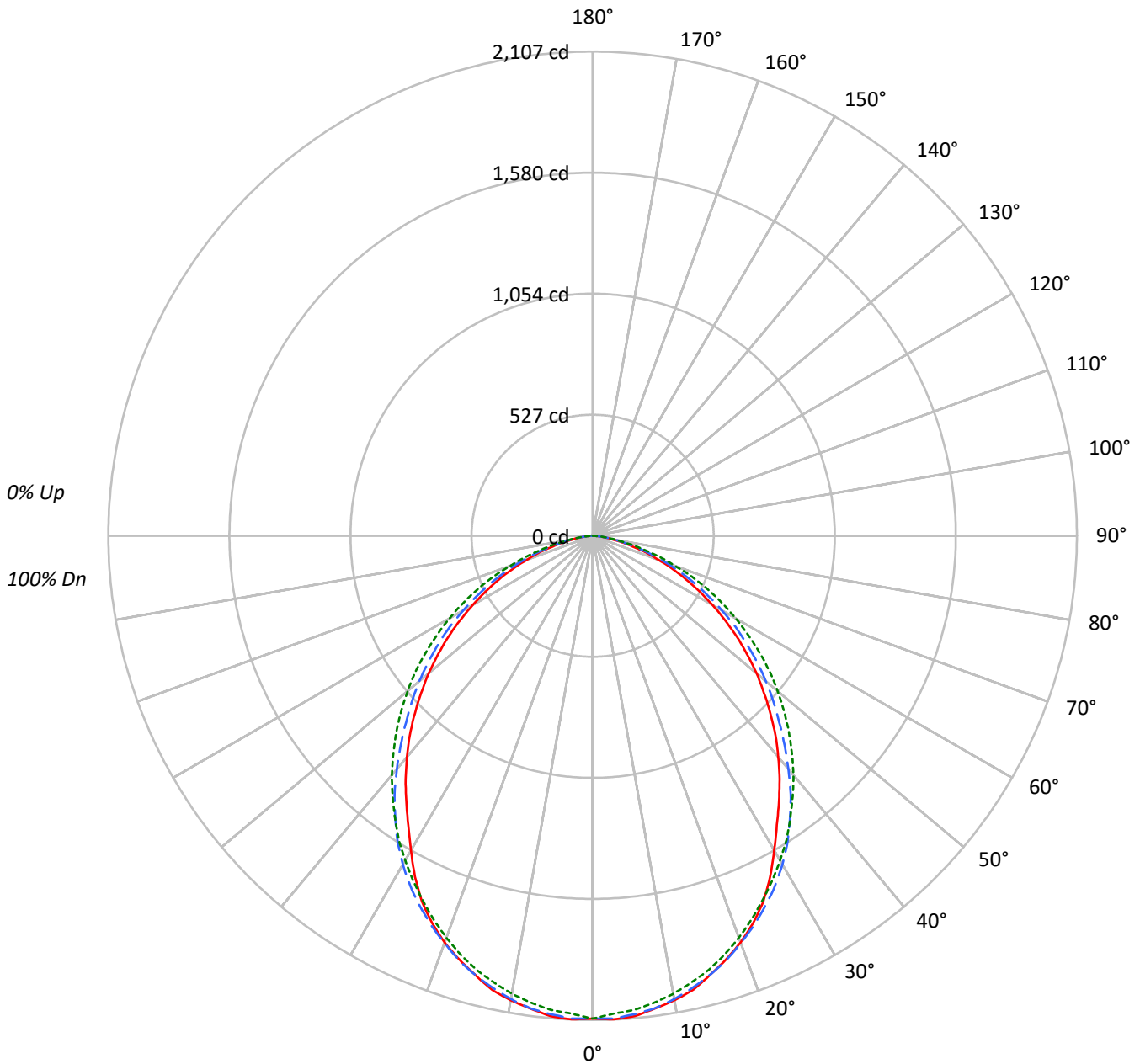
Lumens per Lamp: N/A
Luminaire Lumens: 4858.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	11307	11307	11307
5°	11337	11290	11193
10°	11217	11186	11058
15°	11018	11018	10892
20°	10785	10799	10660
25°	10429	10559	10391
30°	9821	10263	10137
35°	9280	9837	9853
40°	8829	9305	9549
45°	8324	8742	9191
50°	7792	8238	8799
55°	7187	7664	8323
60°	6472	6993	7741
65°	5715	6218	7041
70°	4763	5297	5983
75°	3743	4230	4683
80°	2678	2975	3301
85°	1741	1741	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	4.1
10°-20°	555.7	11.4
20°-30°	812.1	16.7
30°-40°	921.8	19.0
40°-50°	889.8	18.3
50°-60°	734.1	15.1
60°-70°	488.8	10.1
70°-80°	218.8	4.5
80°-90°	39.1	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°	1565.6	32.2
0°-40°	2487.4	51.2
0°-60°	4111.3	84.6
0°-90°	4858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2098	2098	2090	2078	2072	199
15°	1978	1982	1978	1969	1955	557
25°	1756	1770	1778	1765	1750	804
35°	1412	1432	1497	1505	1500	885
45°	1094	1112	1148	1201	1208	844
55°	766	779	817	862	887	684
65°	449	461	488	523	553	445
75°	180	190	203	213	225	197
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.0	2101.0	2101.0	2101.0	2101.0
2.5°	2106.6	2107.4	2102.6	2089.7	2081.6
5°	2098.5	2097.7	2089.7	2078.4	2071.9
7.5°	2075.1	2076.7	2074.3	2058.2	2049.3
10°	2052.5	2053.3	2046.9	2034.0	2023.5
12.5°	2023.5	2022.7	2013.8	2007.3	1990.4
15°	1977.5	1982.3	1977.5	1968.6	1954.9
17.5°	1933.1	1933.1	1936.3	1921.0	1910.5
20°	1883.0	1885.5	1885.5	1873.3	1861.2
22.5°	1824.9	1832.2	1834.6	1821.7	1807.2
25°	1756.3	1770.0	1778.1	1765.2	1749.9
27.5°	1673.2	1694.2	1718.4	1708.7	1691.7
30°	1580.4	1611.0	1651.4	1643.3	1631.2
32.5°	1492.4	1523.1	1578.7	1575.5	1569.1
35°	1412.5	1431.8	1497.2	1505.3	1499.6
37.5°	1336.6	1354.4	1415.7	1434.3	1429.4
40°	1256.7	1276.1	1324.5	1357.6	1359.2
42.5°	1177.6	1196.2	1235.7	1283.3	1283.3
45°	1093.7	1112.2	1148.5	1201.0	1207.5
47.5°	1011.3	1030.7	1066.2	1118.7	1129.2
50°	930.6	948.4	983.9	1034.7	1050.9
52.5°	846.7	866.1	900.8	947.6	971.0
55°	766.0	778.9	816.8	862.0	887.0
57.5°	682.0	694.1	736.9	775.7	801.5
60°	601.3	616.6	649.7	689.3	719.2
62.5°	523.8	540.0	568.2	602.9	636.8
65°	448.8	460.9	488.3	523.0	552.9
67.5°	376.1	386.6	414.1	438.3	469.7
70°	302.7	316.4	336.6	360.0	380.2
72.5°	243.8	249.4	266.4	283.3	304.3
75°	180.0	189.7	203.4	213.1	225.2
77.5°	129.1	134.8	142.9	150.9	162.2
80°	86.4	88.8	96.0	97.7	106.5
82.5°	52.5	54.1	55.7	56.5	59.7
85°	28.2	28.2	28.2	26.6	26.6
87.5°	16.1	16.1	13.7	11.3	8.1
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)