

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: P556139

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-93-94-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: P556139
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-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

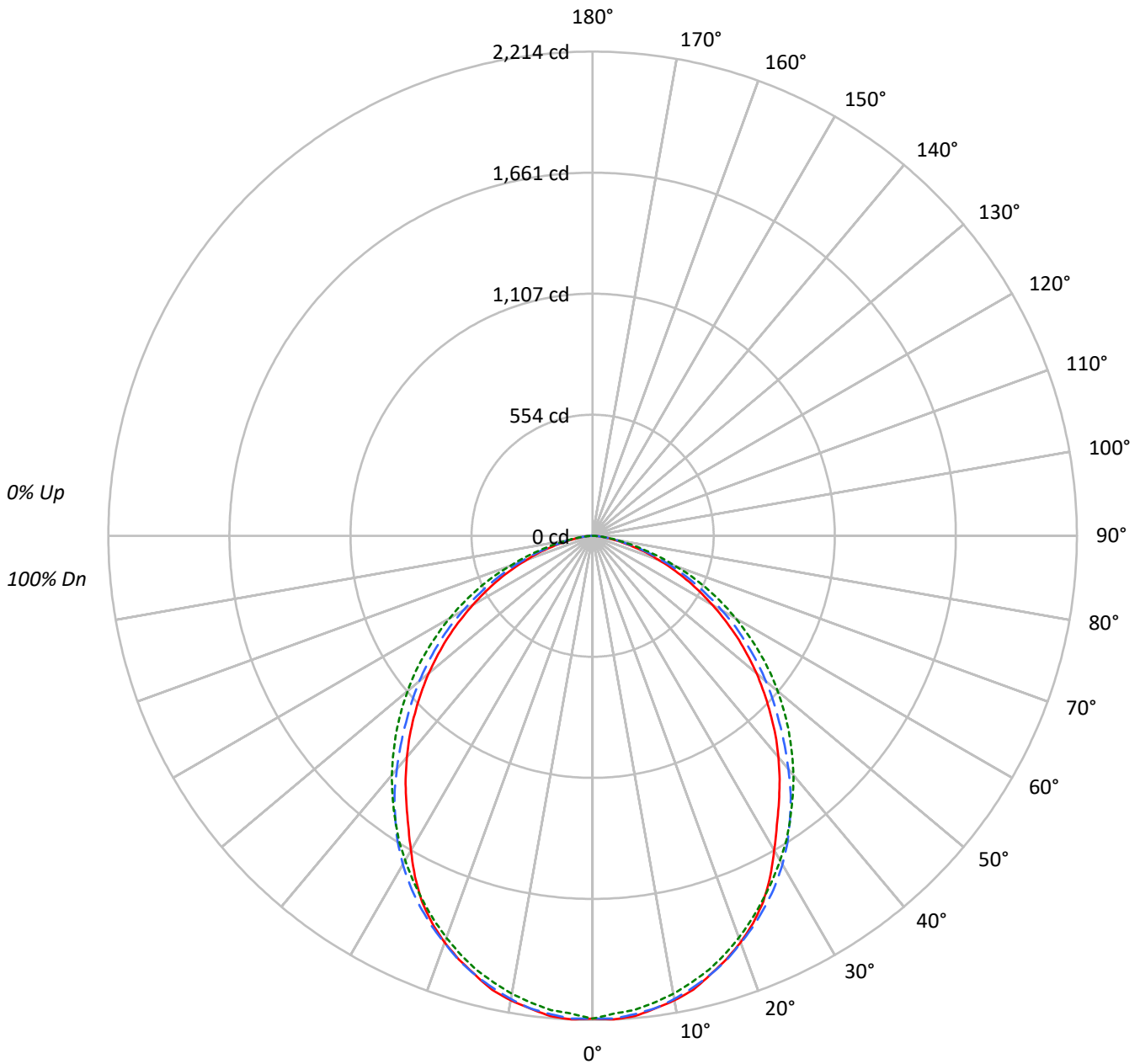
Lumens per Lamp: N/A
Luminaire Lumens: 5105.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11882	11882	11882
5°	11914	11863	11762
10°	11787	11755	11621
15°	11578	11578	11446
20°	11333	11348	11202
25°	10960	11096	10919
30°	10321	10785	10652
35°	9752	10337	10354
40°	9278	9778	10035
45°	8748	9186	9658
50°	8188	8657	9246
55°	7553	8054	8746
60°	6802	7350	8134
65°	6006	6534	7399
70°	5006	5566	6286
75°	3932	4444	4920
80°	2814	3127	3471
85°	1834	1834	1729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	4.1
10°-20°	584.0	11.4
20°-30°	853.4	16.7
30°-40°	968.7	19.0
40°-50°	935.1	18.3
50°-60°	771.4	15.1
60°-70°	513.7	10.1
70°-80°	229.9	4.5
80°-90°	41.1	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°	1645.2	32.2
0°-40°	2613.8	51.2
0°-60°	4320.3	84.6
0°-90°	5105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2208	2208	2208	2208	2208	
5°	2205	2204	2196	2184	2177	209
15°	2078	2083	2078	2069	2054	586
25°	1846	1860	1868	1855	1839	845
35°	1484	1505	1573	1582	1576	930
45°	1149	1169	1207	1262	1269	887
55°	805	818	858	906	932	718
65°	472	484	513	550	581	468
75°	189	199	214	224	237	207
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°	2207.8	2207.8	2207.8	2207.8	2207.8
2.5°	2213.7	2214.6	2209.5	2195.9	2187.4
5°	2205.2	2204.4	2195.9	2184.0	2177.2
7.5°	2180.6	2182.3	2179.8	2162.8	2153.5
10°	2156.9	2157.7	2151.0	2137.4	2126.4
12.5°	2126.4	2125.5	2116.2	2109.4	2091.6
15°	2078.0	2083.1	2078.0	2068.7	2054.3
17.5°	2031.4	2031.4	2034.8	2018.6	2007.6
20°	1978.8	1981.3	1981.3	1968.6	1955.9
22.5°	1917.7	1925.3	1927.9	1914.3	1899.0
25°	1845.6	1860.0	1868.5	1854.9	1838.8
27.5°	1758.3	1780.3	1805.7	1795.6	1777.8
30°	1660.7	1692.9	1735.4	1726.9	1714.1
32.5°	1568.3	1600.5	1659.0	1655.6	1648.8
35°	1484.3	1504.6	1573.4	1581.8	1575.9
37.5°	1404.6	1423.2	1487.7	1507.2	1502.1
40°	1320.6	1341.0	1391.8	1426.6	1428.3
42.5°	1237.5	1257.0	1298.5	1348.6	1348.6
45°	1149.3	1168.8	1206.9	1262.1	1268.9
47.5°	1062.8	1083.1	1120.4	1175.6	1186.6
50°	977.9	996.6	1033.9	1087.4	1104.3
52.5°	889.7	910.1	946.6	995.7	1020.3
55°	804.9	818.5	858.3	905.8	932.1
57.5°	716.7	729.4	774.4	815.1	842.2
60°	631.9	648.0	682.8	724.3	755.7
62.5°	550.5	567.4	597.1	633.6	669.2
65°	471.6	484.3	513.1	549.6	581.0
67.5°	395.2	406.3	435.1	460.6	493.6
70°	318.1	332.5	353.7	378.3	399.5
72.5°	256.1	262.1	279.9	297.7	319.8
75°	189.1	199.3	213.7	223.9	236.6
77.5°	135.7	141.6	150.1	158.6	170.5
80°	90.8	93.3	100.9	102.6	112.0
82.5°	55.1	56.8	58.5	59.4	62.8
85°	29.7	29.7	29.7	28.0	28.0
87.5°	17.0	17.0	14.4	11.9	8.5
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)