

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: P556027

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-94-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: P556027
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-40-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

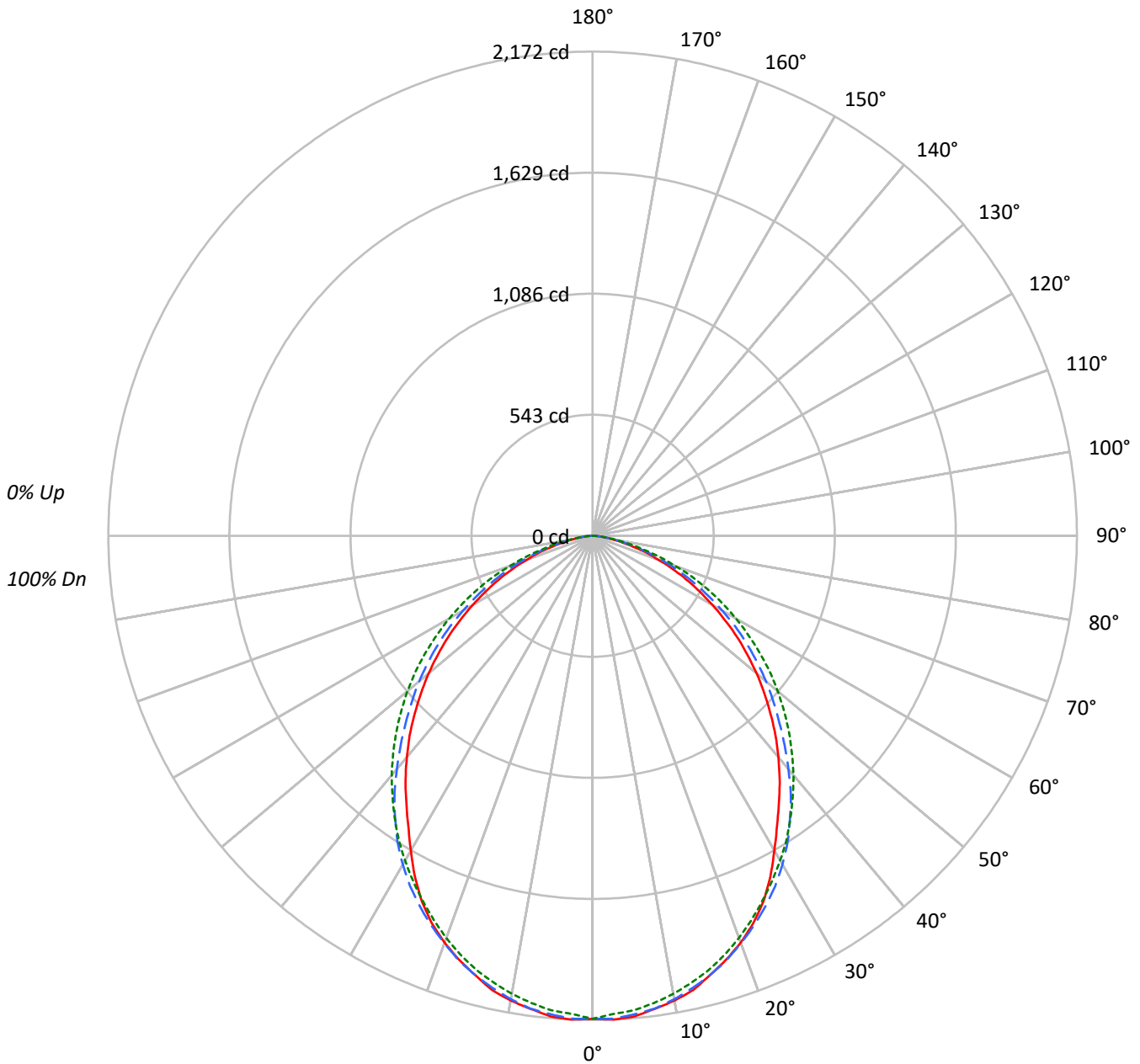
Lumens per Lamp: N/A
Luminaire Lumens: 5010.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11661	11661	11661
5°	11692	11642	11544
10°	11568	11536	11404
15°	11363	11363	11233
20°	11123	11136	10994
25°	10756	10889	10716
30°	10128	10584	10454
35°	9571	10145	10161
40°	9105	9596	9848
45°	8585	9016	9478
50°	8035	8496	9074
55°	7412	7904	8584
60°	6675	7213	7984
65°	5894	6413	7261
70°	4911	5462	6170
75°	3859	4363	4828
80°	2762	3071	3406
85°	1797	1797	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	4.1
10°-20°	573.1	11.4
20°-30°	837.5	16.7
30°-40°	950.6	19.0
40°-50°	917.7	18.3
50°-60°	757.0	15.1
60°-70°	504.1	10.1
70°-80°	225.6	4.5
80°-90°	40.4	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°	1614.6	32.2
0°-40°	2565.2	51.2
0°-60°	4239.9	84.6
0°-90°	5010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2167	2167	2167	2167	2167	
5°	2164	2163	2155	2143	2137	205
15°	2039	2044	2039	2030	2016	575
25°	1811	1825	1834	1820	1805	829
35°	1457	1477	1544	1552	1547	913
45°	1128	1147	1184	1239	1245	870
55°	790	803	842	889	915	705
65°	463	475	504	539	570	459
75°	186	196	210	220	232	203
85°	29	29	29	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2166.7	2166.7	2166.7	2166.7	2166.7
2.5°	2172.5	2173.4	2168.4	2155.0	2146.7
5°	2164.2	2163.4	2155.0	2143.4	2136.7
7.5°	2140.1	2141.7	2139.2	2122.6	2113.4
10°	2116.8	2117.6	2110.9	2097.6	2086.8
12.5°	2086.8	2086.0	2076.8	2070.1	2052.7
15°	2039.3	2044.3	2039.3	2030.2	2016.0
17.5°	1993.6	1993.6	1996.9	1981.1	1970.3
20°	1942.0	1944.4	1944.4	1932.0	1919.5
22.5°	1882.0	1889.5	1892.0	1878.7	1863.7
25°	1811.3	1825.4	1833.7	1820.4	1804.6
27.5°	1725.5	1747.2	1772.1	1762.2	1744.7
30°	1629.8	1661.4	1703.1	1694.7	1682.2
32.5°	1539.1	1570.7	1628.1	1624.8	1618.2
35°	1456.7	1476.6	1544.1	1552.4	1546.6
37.5°	1378.4	1396.7	1460.0	1479.1	1474.2
40°	1296.0	1316.0	1365.9	1400.1	1401.7
42.5°	1214.4	1233.6	1274.4	1323.5	1323.5
45°	1127.9	1147.0	1184.5	1238.6	1245.2
47.5°	1043.0	1063.0	1099.6	1153.7	1164.5
50°	959.7	978.1	1014.7	1067.1	1083.8
52.5°	873.2	893.1	928.9	977.2	1001.4
55°	789.9	803.3	842.4	889.0	914.8
57.5°	703.4	715.9	760.0	799.9	826.6
60°	620.1	635.9	670.1	710.9	741.7
62.5°	540.2	556.9	586.0	621.8	656.8
65°	462.8	475.3	503.6	539.4	570.2
67.5°	387.9	398.7	427.0	452.0	484.4
70°	312.1	326.3	347.1	371.2	392.1
72.5°	251.4	257.2	274.7	292.2	313.8
75°	185.6	195.6	209.8	219.7	232.2
77.5°	133.2	139.0	147.3	155.7	167.3
80°	89.1	91.6	99.1	100.7	109.9
82.5°	54.1	55.8	57.4	58.3	61.6
85°	29.1	29.1	29.1	27.5	27.5
87.5°	16.6	16.6	14.2	11.7	8.3
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)