

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: P555450

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-94-EDD-90**

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: P555450
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-LD4-3HI-35-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

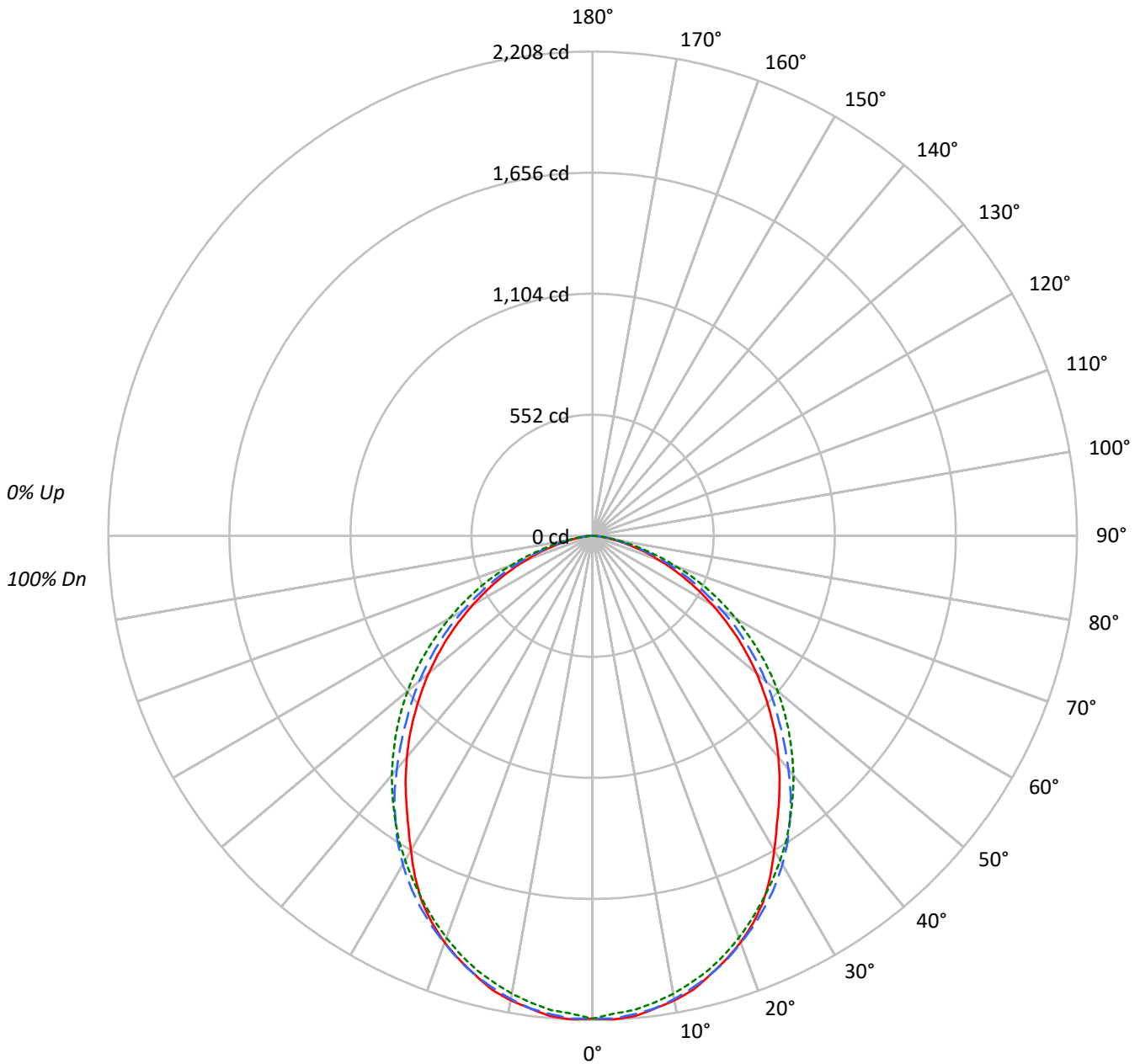
Lumens per Lamp: N/A
Luminaire Lumens: 5091.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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°	11849	11849	11849
5°	11881	11831	11730
10°	11755	11723	11588
15°	11546	11546	11414
20°	11302	11317	11171
25°	10930	11065	10890
30°	10293	10755	10623
35°	9725	10309	10326
40°	9253	9752	10007
45°	8723	9161	9631
50°	8166	8633	9221
55°	7532	8032	8723
60°	6783	7329	8112
65°	5989	6516	7379
70°	4991	5550	6269
75°	3922	4433	4907
80°	2805	3121	3462
85°	1828	1828	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	4.1
10°-20°	582.4	11.4
20°-30°	851.0	16.7
30°-40°	966.0	19.0
40°-50°	932.5	18.3
50°-60°	769.3	15.1
60°-70°	512.3	10.1
70°-80°	229.2	4.5
80°-90°	41.0	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°	1640.7	32.2
0°-40°	2606.7	51.2
0°-60°	4308.5	84.6
0°-90°	5091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2199	2198	2190	2178	2171	208
15°	2072	2077	2072	2063	2049	584
25°	1841	1855	1863	1850	1834	843
35°	1480	1500	1569	1578	1572	927
45°	1146	1166	1204	1259	1265	884
55°	803	816	856	903	930	716
65°	470	483	512	548	579	466
75°	189	199	213	223	236	206
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°	2201.7	2201.7	2201.7	2201.7	2201.7
2.5°	2207.6	2208.5	2203.4	2189.9	2181.4
5°	2199.2	2198.3	2189.9	2178.0	2171.3
7.5°	2174.7	2176.4	2173.8	2156.9	2147.6
10°	2151.0	2151.8	2145.1	2131.5	2120.5
12.5°	2120.5	2119.7	2110.4	2103.6	2085.8
15°	2072.3	2077.4	2072.3	2063.0	2048.6
17.5°	2025.8	2025.8	2029.2	2013.1	2002.1
20°	1973.3	1975.9	1975.9	1963.2	1950.5
22.5°	1912.4	1920.1	1922.6	1909.1	1893.8
25°	1840.6	1854.9	1863.4	1849.9	1833.8
27.5°	1753.4	1775.4	1800.8	1790.6	1772.9
30°	1656.2	1688.3	1730.6	1722.1	1709.4
32.5°	1564.0	1596.1	1654.5	1651.1	1644.3
35°	1480.2	1500.5	1569.0	1577.5	1571.6
37.5°	1400.7	1419.3	1483.6	1503.1	1498.0
40°	1317.0	1337.3	1388.0	1422.7	1424.4
42.5°	1234.1	1253.5	1295.0	1344.9	1344.9
45°	1146.1	1165.6	1203.6	1258.6	1265.4
47.5°	1059.8	1080.1	1117.4	1172.3	1183.3
50°	975.3	993.9	1031.1	1084.4	1101.3
52.5°	887.3	907.6	944.0	993.0	1017.5
55°	802.7	816.2	856.0	903.4	929.6
57.5°	714.7	727.4	772.3	812.9	839.9
60°	630.2	646.2	680.9	722.3	753.6
62.5°	549.0	565.9	595.5	631.8	667.4
65°	470.3	483.0	511.7	548.1	579.4
67.5°	394.2	405.2	433.9	459.3	492.3
70°	317.2	331.6	352.7	377.2	398.4
72.5°	255.4	261.4	279.1	296.9	318.9
75°	188.6	198.8	213.2	223.3	236.0
77.5°	135.3	141.3	149.7	158.2	170.0
80°	90.5	93.0	100.7	102.3	111.7
82.5°	55.0	56.7	58.4	59.2	62.6
85°	29.6	29.6	29.6	27.9	27.9
87.5°	16.9	16.9	14.4	11.8	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)