

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: P555442

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-85-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: P555442
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-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

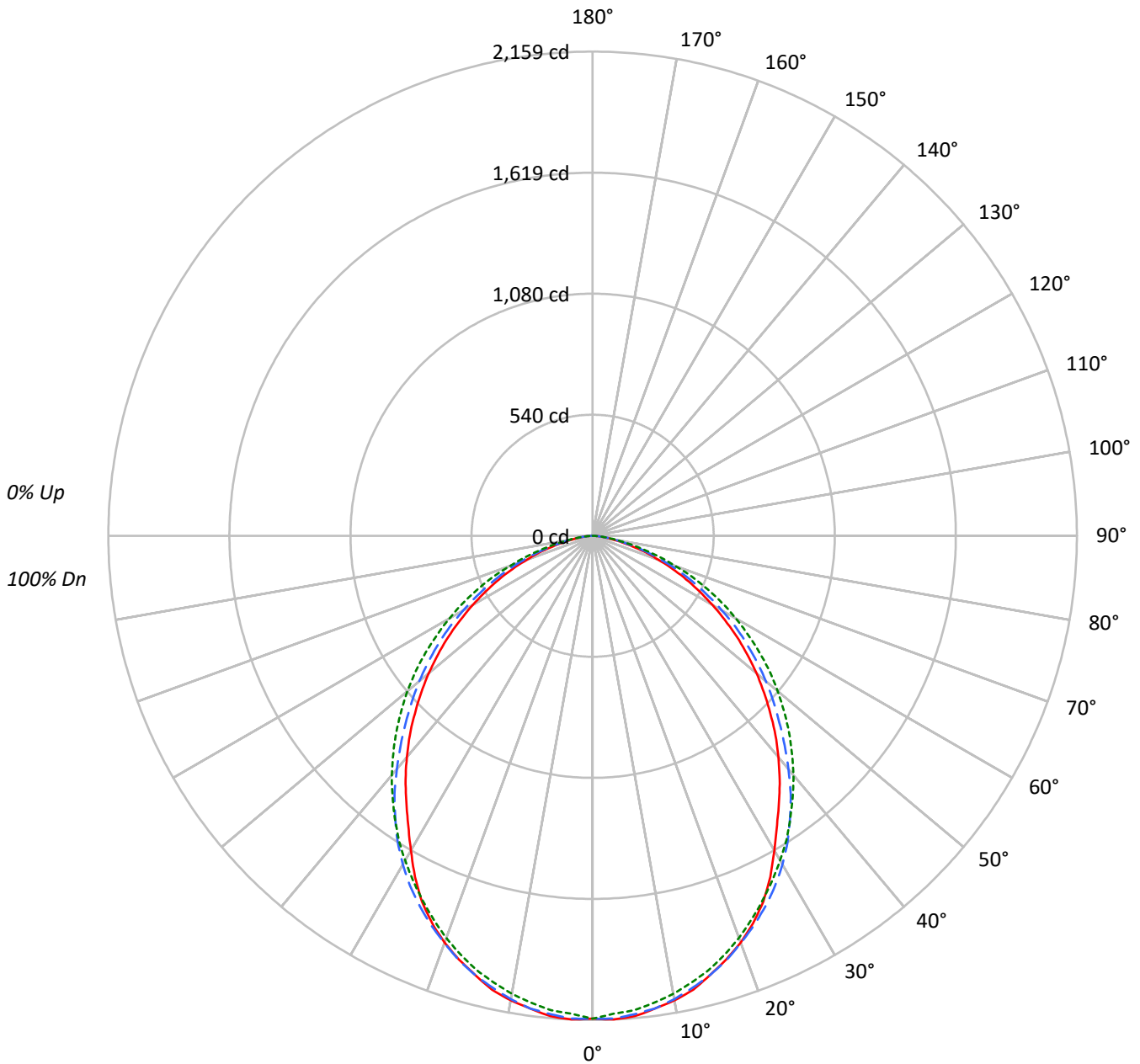
Lumens per Lamp: N/A
Luminaire Lumens: 4979.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11589	11589	11589
5°	11620	11571	11472
10°	11497	11465	11334
15°	11292	11292	11164
20°	11053	11068	10926
25°	10690	10822	10650
30°	10066	10518	10389
35°	9512	10082	10098
40°	9049	9537	9787
45°	8531	8960	9419
50°	7986	8443	9018
55°	7366	7856	8530
60°	6634	7168	7934
65°	5857	6374	7217
70°	4881	5429	6131
75°	3837	4336	4799
80°	2743	3050	3384
85°	1791	1791	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	4.1
10°-20°	569.5	11.4
20°-30°	832.3	16.7
30°-40°	944.8	19.0
40°-50°	912.0	18.3
50°-60°	752.4	15.1
60°-70°	501.0	10.1
70°-80°	224.2	4.5
80°-90°	40.1	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°	1604.6	32.2
0°-40°	2549.3	51.2
0°-60°	4213.7	84.6
0°-90°	4979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2153	2153	2153	2153	2153	
5°	2151	2150	2142	2130	2124	204
15°	2027	2032	2027	2018	2004	571
25°	1800	1814	1822	1809	1793	824
35°	1448	1468	1534	1543	1537	907
45°	1121	1140	1177	1231	1238	865
55°	785	798	837	884	909	701
65°	460	472	500	536	567	456
75°	184	194	208	218	231	202
85°	29	29	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2153.3	2153.3	2153.3	2153.3	2153.3
2.5°	2159.1	2159.9	2154.9	2141.7	2133.4
5°	2150.8	2150.0	2141.7	2130.1	2123.5
7.5°	2126.8	2128.5	2126.0	2109.4	2100.3
10°	2103.7	2104.5	2097.9	2084.6	2073.9
12.5°	2073.9	2073.0	2063.9	2057.3	2040.0
15°	2026.7	2031.7	2026.7	2017.6	2003.6
17.5°	1981.2	1981.2	1984.5	1968.8	1958.1
20°	1929.9	1932.4	1932.4	1920.0	1907.6
22.5°	1870.4	1877.8	1880.3	1867.1	1852.2
25°	1800.1	1814.1	1822.4	1809.2	1793.4
27.5°	1714.9	1736.4	1761.2	1751.3	1733.9
30°	1619.7	1651.2	1692.5	1684.2	1671.8
32.5°	1529.6	1561.0	1618.1	1614.8	1608.1
35°	1447.7	1467.5	1534.5	1542.8	1537.0
37.5°	1369.9	1388.1	1451.0	1470.0	1465.0
40°	1288.0	1307.9	1357.5	1391.4	1393.1
42.5°	1206.9	1226.0	1266.5	1315.3	1315.3
45°	1120.9	1139.9	1177.2	1230.9	1237.5
47.5°	1036.5	1056.4	1092.8	1146.5	1157.3
50°	953.8	972.0	1008.4	1060.5	1077.1
52.5°	867.8	887.6	923.2	971.2	995.2
55°	785.0	798.3	837.2	883.5	909.1
57.5°	699.0	711.4	755.3	795.0	821.4
60°	616.3	632.0	665.9	706.5	737.1
62.5°	536.9	553.4	582.4	617.9	652.7
65°	459.9	472.4	500.5	536.0	566.7
67.5°	385.5	396.2	424.4	449.2	481.4
70°	310.2	324.3	345.0	368.9	389.6
72.5°	249.8	255.6	273.0	290.4	311.9
75°	184.5	194.4	208.5	218.4	230.8
77.5°	132.4	138.1	146.4	154.7	166.3
80°	88.5	91.0	98.4	100.1	109.2
82.5°	53.8	55.4	57.1	57.9	61.2
85°	29.0	29.0	29.0	27.3	27.3
87.5°	16.5	16.5	14.1	11.6	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)