

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: P555436

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-93-96-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: P555436
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-30-UNV-93-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

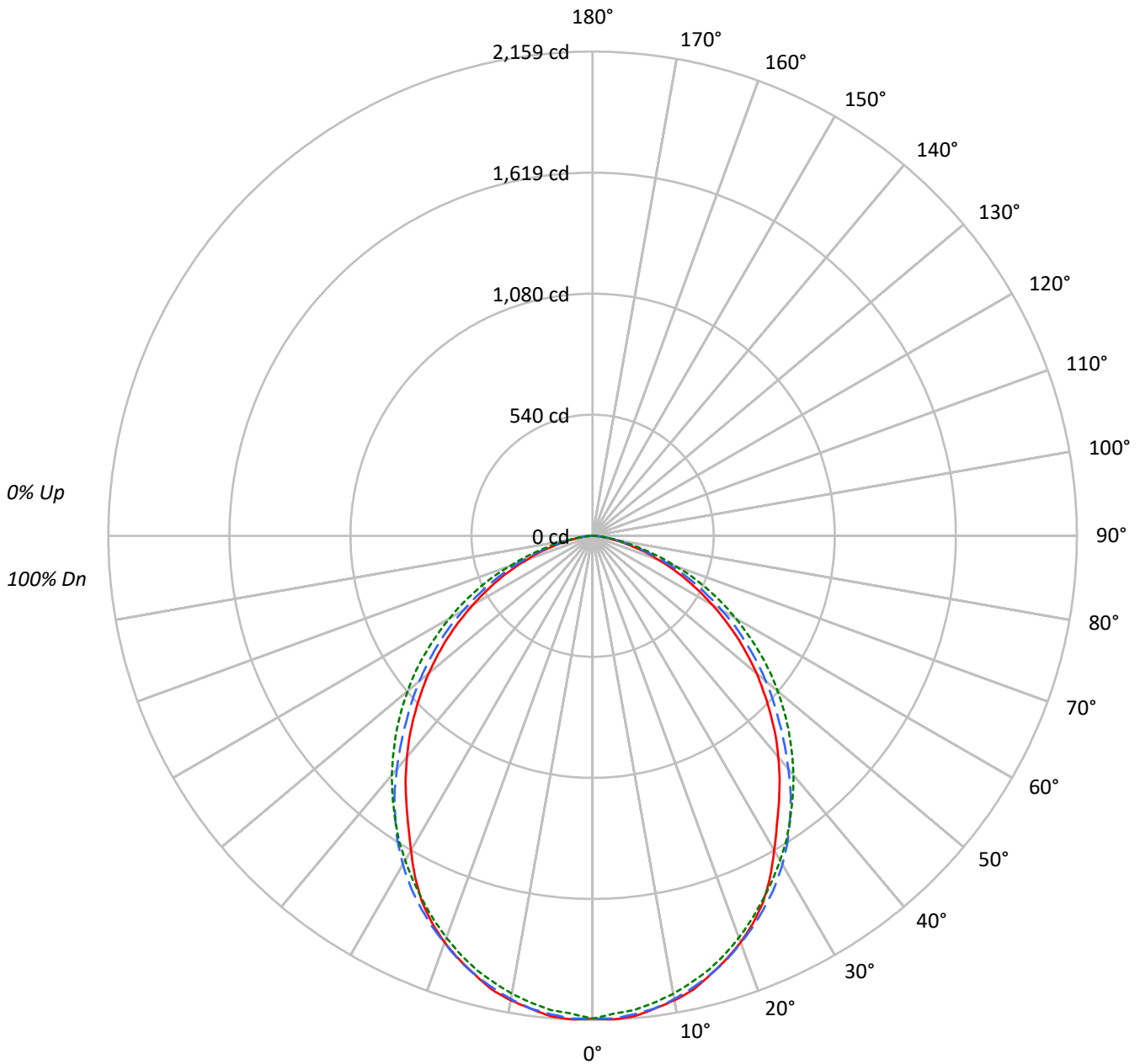
Lumens per Lamp: N/A
Luminaire Lumens: 4978.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	11587	11587	11587
5°	11618	11568	11470
10°	11494	11462	11332
15°	11290	11290	11161
20°	11051	11065	10923
25°	10687	10820	10648
30°	10064	10516	10388
35°	9510	10080	10096
40°	9047	9535	9785
45°	8530	8958	9417
50°	7984	8441	9016
55°	7365	7854	8528
60°	6633	7167	7932
65°	5855	6372	7214
70°	4881	5427	6129
75°	3834	4334	4799
80°	2743	3050	3384
85°	1785	1785	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	4.1
10°-20°	569.4	11.4
20°-30°	832.1	16.7
30°-40°	944.6	19.0
40°-50°	911.8	18.3
50°-60°	752.2	15.1
60°-70°	500.9	10.1
70°-80°	224.1	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°	1604.3	32.2
0°-40°	2548.8	51.2
0°-60°	4212.8	84.6
0°-90°	4978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2153	2153	2153	2153	2153	
5°	2150	2150	2141	2130	2123	204
15°	2026	2031	2026	2017	2003	571
25°	1800	1814	1822	1809	1793	824
35°	1447	1467	1534	1542	1537	907
45°	1121	1140	1177	1231	1237	865
55°	785	798	837	883	909	701
65°	460	472	500	536	566	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°	2152.9	2152.9	2152.9	2152.9	2152.9
2.5°	2158.6	2159.5	2154.5	2141.3	2133.0
5°	2150.4	2149.5	2141.3	2129.7	2123.1
7.5°	2126.4	2128.0	2125.6	2109.0	2099.9
10°	2103.2	2104.1	2097.4	2084.2	2073.5
12.5°	2073.5	2072.6	2063.5	2056.9	2039.5
15°	2026.3	2031.3	2026.3	2017.2	2003.2
17.5°	1980.8	1980.8	1984.1	1968.4	1957.7
20°	1929.5	1932.0	1932.0	1919.6	1907.2
22.5°	1870.0	1877.4	1879.9	1866.7	1851.8
25°	1799.7	1813.8	1822.0	1808.8	1793.1
27.5°	1714.5	1736.0	1760.8	1750.9	1733.5
30°	1619.4	1650.8	1692.2	1683.9	1671.5
32.5°	1529.2	1560.7	1617.7	1614.4	1607.8
35°	1447.4	1467.2	1534.2	1542.5	1536.7
37.5°	1369.6	1387.8	1450.7	1469.7	1464.7
40°	1287.7	1307.6	1357.2	1391.1	1392.8
42.5°	1206.7	1225.7	1266.2	1315.0	1315.0
45°	1120.7	1139.7	1176.9	1230.7	1237.3
47.5°	1036.3	1056.2	1092.6	1146.3	1157.1
50°	953.6	971.8	1008.2	1060.3	1076.8
52.5°	867.6	887.4	923.0	971.0	995.0
55°	784.9	798.1	837.0	883.3	908.9
57.5°	698.9	711.3	755.1	794.8	821.3
60°	616.2	631.9	665.8	706.3	736.9
62.5°	536.8	553.3	582.3	617.8	652.6
65°	459.8	472.3	500.4	535.9	566.5
67.5°	385.4	396.2	424.3	449.1	481.4
70°	310.2	324.2	344.9	368.9	389.5
72.5°	249.8	255.6	272.9	290.3	311.8
75°	184.4	194.4	208.4	218.3	230.8
77.5°	132.3	138.1	146.4	154.7	166.2
80°	88.5	91.0	98.4	100.1	109.2
82.5°	53.8	55.4	57.1	57.9	61.2
85°	28.9	28.9	28.9	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)