

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: P556007

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-93-87-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: P556007
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-35-UNV-93-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

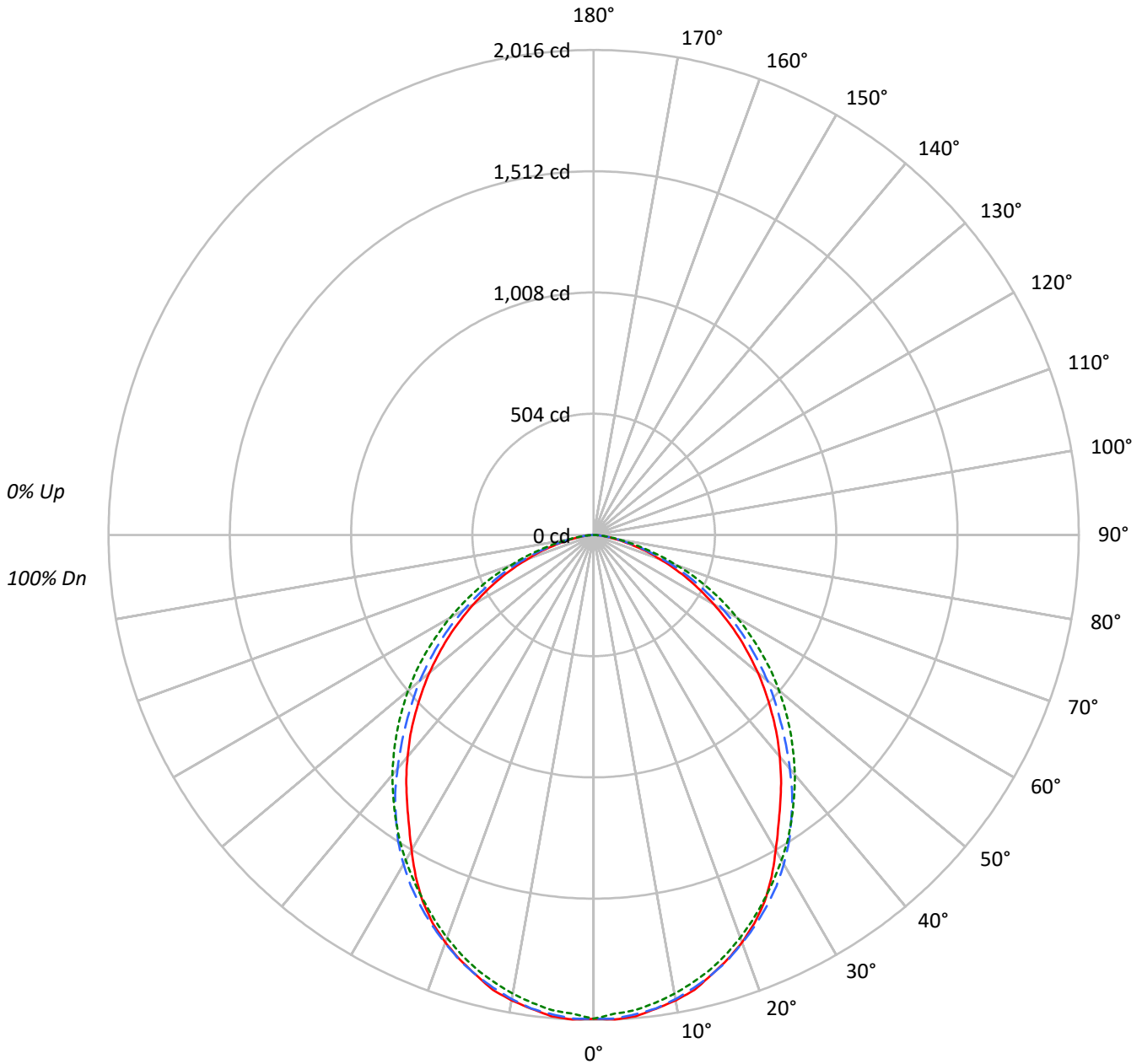
Lumens per Lamp: N/A
Luminaire Lumens: 4650.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): 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°	10823	10823	10823
5°	10852	10806	10714
10°	10737	10707	10585
15°	10546	10546	10426
20°	10323	10336	10204
25°	9983	10107	9946
30°	9401	9823	9703
35°	8883	9416	9431
40°	8451	8907	9140
45°	7967	8368	8797
50°	7459	7886	8422
55°	6880	7336	7967
60°	6196	6694	7410
65°	5471	5952	6739
70°	4559	5070	5726
75°	3583	4049	4481
80°	2563	2848	3161
85°	1667	1667	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	4.1
10°-20°	531.9	11.4
20°-30°	777.3	16.7
30°-40°	882.3	19.0
40°-50°	851.8	18.3
50°-60°	702.6	15.1
60°-70°	467.9	10.1
70°-80°	209.4	4.5
80°-90°	37.5	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°	1498.6	32.2
0°-40°	2380.9	51.2
0°-60°	3935.3	84.6
0°-90°	4650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	2009	2008	2000	1989	1983	190
15°	1893	1897	1893	1884	1871	534
25°	1681	1694	1702	1690	1675	770
35°	1352	1370	1433	1441	1435	847
45°	1047	1065	1099	1150	1156	808
55°	733	746	782	825	849	654
65°	430	441	467	501	529	426
75°	172	182	195	204	216	188
85°	27	27	27	26	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2011.0	2011.0	2011.0	2011.0	2011.0
2.5°	2016.4	2017.2	2012.6	2000.2	1992.5
5°	2008.7	2007.9	2000.2	1989.4	1983.2
7.5°	1986.3	1987.8	1985.5	1970.1	1961.6
10°	1964.7	1965.4	1959.2	1946.9	1936.8
12.5°	1936.8	1936.1	1927.6	1921.4	1905.2
15°	1892.8	1897.4	1892.8	1884.3	1871.2
17.5°	1850.3	1850.3	1853.4	1838.7	1828.7
20°	1802.4	1804.7	1804.7	1793.1	1781.6
22.5°	1746.8	1753.7	1756.1	1743.7	1729.8
25°	1681.1	1694.3	1702.0	1689.6	1674.9
27.5°	1601.5	1621.6	1644.8	1635.5	1619.3
30°	1512.7	1542.1	1580.7	1573.0	1561.4
32.5°	1428.5	1457.8	1511.2	1508.1	1501.9
35°	1352.0	1370.5	1433.1	1440.8	1435.4
37.5°	1279.4	1296.4	1355.1	1372.9	1368.2
40°	1202.9	1221.4	1267.8	1299.5	1301.0
42.5°	1127.2	1145.0	1182.8	1228.4	1228.4
45°	1046.8	1064.6	1099.4	1149.6	1155.8
47.5°	968.0	986.6	1020.6	1070.8	1080.8
50°	890.8	907.8	941.8	990.4	1005.9
52.5°	810.4	829.0	862.2	907.0	929.4
55°	733.2	745.5	781.8	825.1	849.1
57.5°	652.8	664.4	705.4	742.4	767.2
60°	575.6	590.2	621.9	659.8	688.4
62.5°	501.4	516.9	543.9	577.1	609.6
65°	429.6	441.1	467.4	500.6	529.2
67.5°	360.0	370.1	396.3	419.5	449.6
70°	289.7	302.8	322.2	344.6	363.9
72.5°	233.3	238.7	254.9	271.2	291.3
75°	172.3	181.6	194.7	204.0	215.5
77.5°	123.6	129.0	136.7	144.5	155.3
80°	82.7	85.0	91.9	93.5	102.0
82.5°	50.2	51.8	53.3	54.1	57.2
85°	27.0	27.0	27.0	25.5	25.5
87.5°	15.5	15.5	13.1	10.8	7.7
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)