

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: P556059

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-82-94-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: P556059
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-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

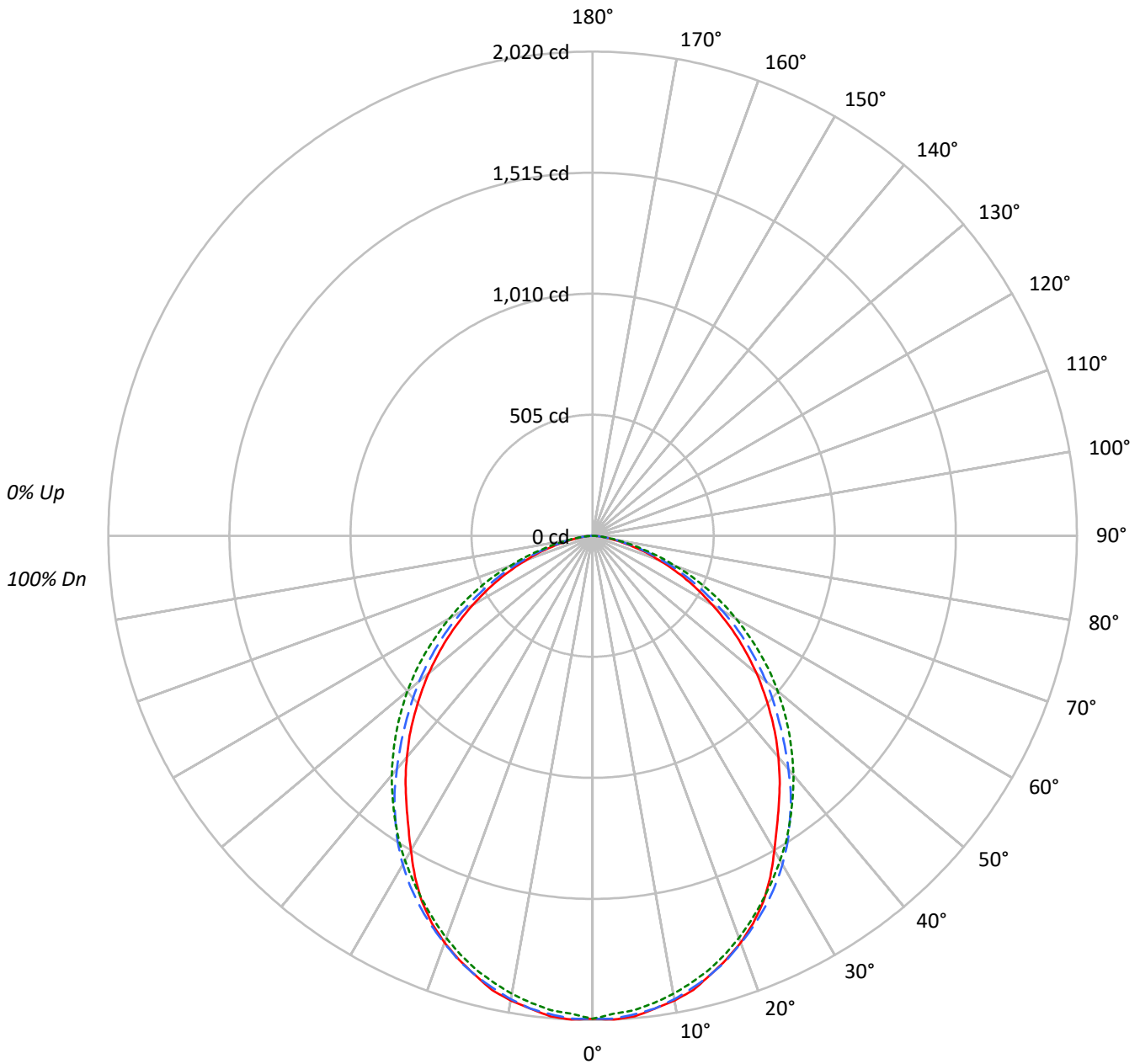
Lumens per Lamp: N/A
Luminaire Lumens: 4659.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10844	10844	10844
5°	10873	10827	10735
10°	10758	10728	10605
15°	10567	10567	10446
20°	10343	10356	10223
25°	10003	10127	9966
30°	9419	9842	9722
35°	8900	9434	9449
40°	8467	8924	9158
45°	7983	8384	8814
50°	7473	7901	8438
55°	6893	7351	7982
60°	6208	6707	7424
65°	5481	5964	6752
70°	4568	5080	5737
75°	3589	4057	4492
80°	2566	2854	3168
85°	1673	1673	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	4.1
10°-20°	532.9	11.4
20°-30°	778.8	16.7
30°-40°	884.0	19.0
40°-50°	853.4	18.3
50°-60°	704.0	15.1
60°-70°	468.8	10.1
70°-80°	209.8	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°	1501.5	32.2
0°-40°	2385.5	51.2
0°-60°	3942.9	84.6
0°-90°	4659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2015	2015	2015	2015	2015	
5°	2013	2012	2004	1993	1987	190
15°	1896	1901	1896	1888	1875	535
25°	1684	1698	1705	1693	1678	771
35°	1355	1373	1436	1444	1438	849
45°	1049	1067	1102	1152	1158	809
55°	735	747	783	827	851	656
65°	430	442	468	502	530	427
75°	173	182	195	204	216	189
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2014.9	2014.9	2014.9	2014.9	2014.9
2.5°	2020.3	2021.1	2016.4	2004.1	1996.3
5°	2012.6	2011.8	2004.1	1993.2	1987.0
7.5°	1990.1	1991.7	1989.4	1973.9	1965.4
10°	1968.5	1969.2	1963.0	1950.6	1940.6
12.5°	1940.6	1939.8	1931.3	1925.1	1908.8
15°	1896.5	1901.1	1896.5	1888.0	1874.8
17.5°	1853.9	1853.9	1857.0	1842.3	1832.2
20°	1805.9	1808.2	1808.2	1796.6	1785.0
22.5°	1750.2	1757.1	1759.5	1747.1	1733.1
25°	1684.4	1697.5	1705.3	1692.9	1678.2
27.5°	1604.6	1624.8	1648.0	1638.7	1622.4
30°	1515.6	1545.0	1583.7	1576.0	1564.4
32.5°	1431.3	1460.7	1514.1	1511.0	1504.8
35°	1354.6	1373.2	1435.9	1443.6	1438.2
37.5°	1281.9	1298.9	1357.7	1375.5	1370.9
40°	1205.2	1223.8	1270.2	1302.0	1303.5
42.5°	1129.4	1147.2	1185.1	1230.8	1230.8
45°	1048.9	1066.7	1101.5	1151.8	1158.0
47.5°	969.9	988.5	1022.5	1072.9	1082.9
50°	892.5	909.5	943.6	992.4	1007.8
52.5°	812.0	830.6	863.9	908.8	931.2
55°	734.6	747.0	783.4	826.7	850.7
57.5°	654.1	665.7	706.7	743.9	768.6
60°	576.7	591.4	623.1	661.1	689.7
62.5°	502.4	517.9	544.9	578.2	610.7
65°	430.4	442.0	468.3	501.6	530.2
67.5°	360.7	370.8	397.1	420.3	450.5
70°	290.3	303.4	322.8	345.2	364.6
72.5°	233.8	239.2	255.4	271.7	291.8
75°	172.6	181.9	195.1	204.4	216.0
77.5°	123.9	129.3	137.0	144.8	155.6
80°	82.8	85.1	92.1	93.7	102.2
82.5°	50.3	51.9	53.4	54.2	57.3
85°	27.1	27.1	27.1	25.5	25.5
87.5°	15.5	15.5	13.2	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)