

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: P556083

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-85-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: P556083
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-50-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

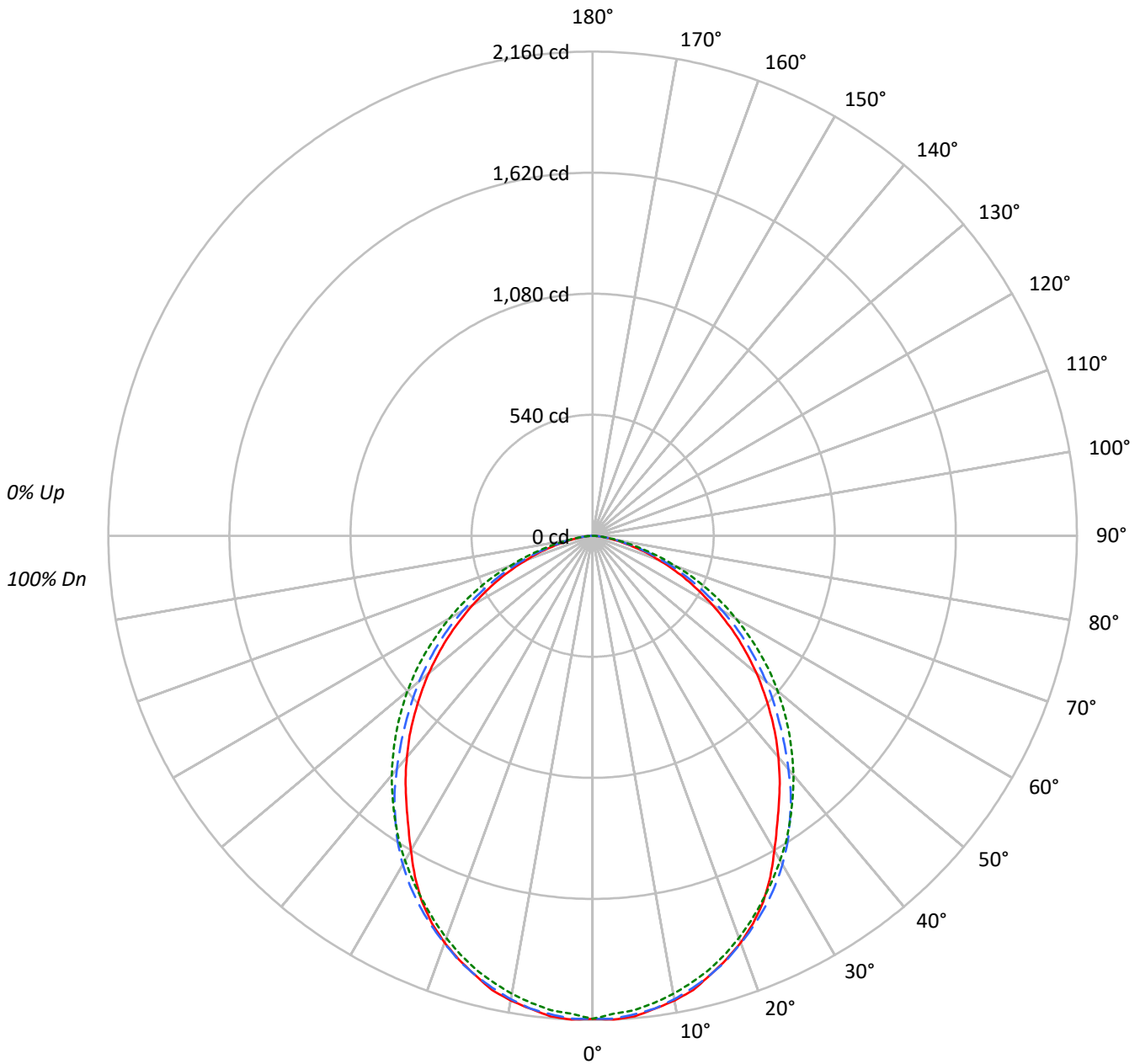
Lumens per Lamp: N/A
Luminaire Lumens: 4982.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	11596	11596	11596
5°	11627	11578	11479
10°	11503	11472	11340
15°	11299	11299	11170
20°	11060	11074	10932
25°	10696	10829	10656
30°	10072	10524	10396
35°	9517	10088	10104
40°	9055	9543	9793
45°	8537	8965	9425
50°	7991	8448	9023
55°	7370	7860	8536
60°	6638	7172	7938
65°	5861	6378	7221
70°	4884	5432	6135
75°	3839	4338	4801
80°	2746	3053	3388
85°	1791	1791	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	4.1
10°-20°	569.9	11.4
20°-30°	832.8	16.7
30°-40°	945.3	19.0
40°-50°	912.6	18.3
50°-60°	752.8	15.1
60°-70°	501.3	10.1
70°-80°	224.3	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°	1605.6	32.2
0°-40°	2550.9	51.2
0°-60°	4216.2	84.6
0°-90°	4982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2155	2155	2155	2155	2155	
5°	2152	2151	2143	2131	2125	204
15°	2028	2033	2028	2019	2005	572
25°	1801	1815	1824	1810	1794	825
35°	1448	1468	1535	1544	1538	908
45°	1122	1141	1178	1232	1238	865
55°	786	799	838	884	910	701
65°	460	473	501	536	567	456
75°	185	194	209	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°	2154.6	2154.6	2154.6	2154.6	2154.6
2.5°	2160.4	2161.2	2156.2	2143.0	2134.7
5°	2152.1	2151.3	2143.0	2131.4	2124.8
7.5°	2128.1	2129.8	2127.3	2110.7	2101.6
10°	2104.9	2105.8	2099.1	2085.9	2075.1
12.5°	2075.1	2074.3	2065.2	2058.6	2041.2
15°	2027.9	2032.9	2027.9	2018.8	2004.8
17.5°	1982.4	1982.4	1985.7	1970.0	1959.2
20°	1931.1	1933.6	1933.6	1921.2	1908.7
22.5°	1871.5	1879.0	1881.4	1868.2	1853.3
25°	1801.1	1815.2	1823.5	1810.2	1794.5
27.5°	1715.9	1737.4	1762.2	1752.3	1734.9
30°	1620.7	1652.2	1693.5	1685.3	1672.8
32.5°	1530.5	1561.9	1619.0	1615.7	1609.1
35°	1448.5	1468.4	1535.4	1543.7	1537.9
37.5°	1370.7	1388.9	1451.8	1470.9	1465.9
40°	1288.8	1308.6	1358.3	1392.2	1393.9
42.5°	1207.7	1226.7	1267.3	1316.1	1316.1
45°	1121.6	1140.6	1177.9	1231.7	1238.3
47.5°	1037.1	1057.0	1093.4	1147.2	1158.0
50°	954.4	972.6	1009.0	1061.2	1077.7
52.5°	868.3	888.2	923.7	971.8	995.8
55°	785.5	798.8	837.7	884.0	909.7
57.5°	699.4	711.8	755.7	795.5	821.9
60°	616.7	632.4	666.3	706.9	737.5
62.5°	537.2	553.8	582.7	618.3	653.1
65°	460.2	472.6	500.8	536.4	567.0
67.5°	385.7	396.5	424.6	449.5	481.7
70°	310.4	324.5	345.2	369.2	389.9
72.5°	250.0	255.8	273.2	290.5	312.1
75°	184.6	194.5	208.6	218.5	230.9
77.5°	132.4	138.2	146.5	154.8	166.4
80°	88.6	91.1	98.5	100.2	109.3
82.5°	53.8	55.5	57.1	57.9	61.3
85°	29.0	29.0	29.0	27.3	27.3
87.5°	16.6	16.6	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)