

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: P556080

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-84-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: P556080
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-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

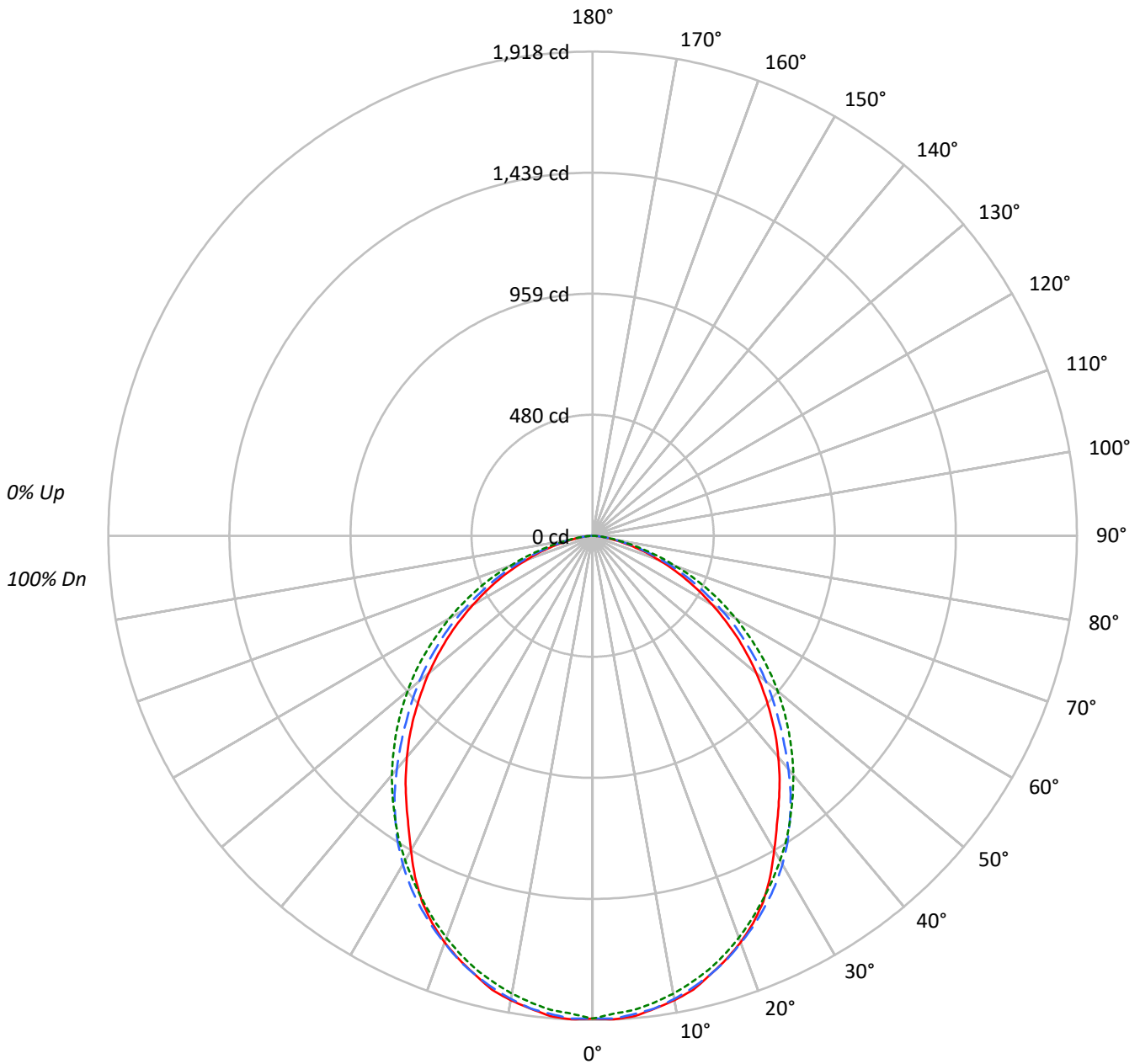
Lumens per Lamp: N/A
Luminaire Lumens: 4422.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10292	10292	10292
5°	10320	10276	10189
10°	10210	10182	10066
15°	10029	10029	9914
20°	9817	9829	9703
25°	9494	9611	9459
30°	8940	9342	9227
35°	8447	8954	8969
40°	8037	8470	8692
45°	7577	7958	8366
50°	7093	7499	8009
55°	6542	6976	7576
60°	5891	6366	7046
65°	5202	5661	6409
70°	4335	4821	5445
75°	3406	3849	4263
80°	2436	2709	3006
85°	1587	1587	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	4.1
10°-20°	505.8	11.4
20°-30°	739.2	16.7
30°-40°	839.1	19.0
40°-50°	810.0	18.3
50°-60°	668.2	15.1
60°-70°	445.0	10.1
70°-80°	199.1	4.5
80°-90°	35.6	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°	1425.1	32.2
0°-40°	2264.1	51.2
0°-60°	3742.3	84.6
0°-90°	4422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1910	1910	1902	1892	1886	181
15°	1800	1804	1800	1792	1779	507
25°	1599	1611	1618	1607	1593	732
35°	1286	1303	1363	1370	1365	806
45°	996	1012	1046	1093	1099	768
55°	697	709	744	785	807	622
65°	408	420	444	476	503	405
75°	164	173	185	194	205	179
85°	26	26	26	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1917.5	1918.3	1913.9	1902.1	1894.8
5°	1910.2	1909.5	1902.1	1891.8	1886.0
7.5°	1888.9	1890.4	1888.2	1873.5	1865.4
10°	1868.3	1869.1	1863.2	1851.4	1841.9
12.5°	1841.9	1841.1	1833.1	1827.2	1811.7
15°	1800.0	1804.4	1800.0	1791.9	1779.4
17.5°	1759.6	1759.6	1762.5	1748.6	1739.0
20°	1714.0	1716.2	1716.2	1705.2	1694.2
22.5°	1661.1	1667.7	1670.0	1658.2	1645.0
25°	1598.7	1611.2	1618.5	1606.8	1592.8
27.5°	1523.0	1542.1	1564.2	1555.3	1539.9
30°	1438.5	1466.4	1503.2	1495.8	1484.8
32.5°	1358.4	1386.4	1437.1	1434.1	1428.2
35°	1285.7	1303.3	1362.9	1370.2	1365.1
37.5°	1216.6	1232.8	1288.6	1305.5	1301.1
40°	1143.9	1161.5	1205.6	1235.8	1237.2
42.5°	1071.9	1088.8	1124.8	1168.2	1168.2
45°	995.5	1012.4	1045.5	1093.2	1099.1
47.5°	920.6	938.2	970.5	1018.3	1027.8
50°	847.1	863.3	895.6	941.9	956.6
52.5°	770.7	788.3	819.9	862.5	883.8
55°	697.2	709.0	743.5	784.7	807.4
57.5°	620.8	631.8	670.8	706.0	729.5
60°	547.3	561.3	591.4	627.4	654.6
62.5°	476.8	491.5	517.2	548.8	579.7
65°	408.5	419.5	444.5	476.1	503.3
67.5°	342.4	351.9	376.9	398.9	427.6
70°	275.5	288.0	306.4	327.7	346.0
72.5°	221.9	227.0	242.4	257.9	277.0
75°	163.8	172.7	185.1	194.0	205.0
77.5°	117.6	122.7	130.0	137.4	147.7
80°	78.6	80.8	87.4	88.9	97.0
82.5°	47.8	49.2	50.7	51.4	54.4
85°	25.7	25.7	25.7	24.2	24.2
87.5°	14.7	14.7	12.5	10.3	7.3
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)