

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: P555385

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-80-88-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: P555385
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

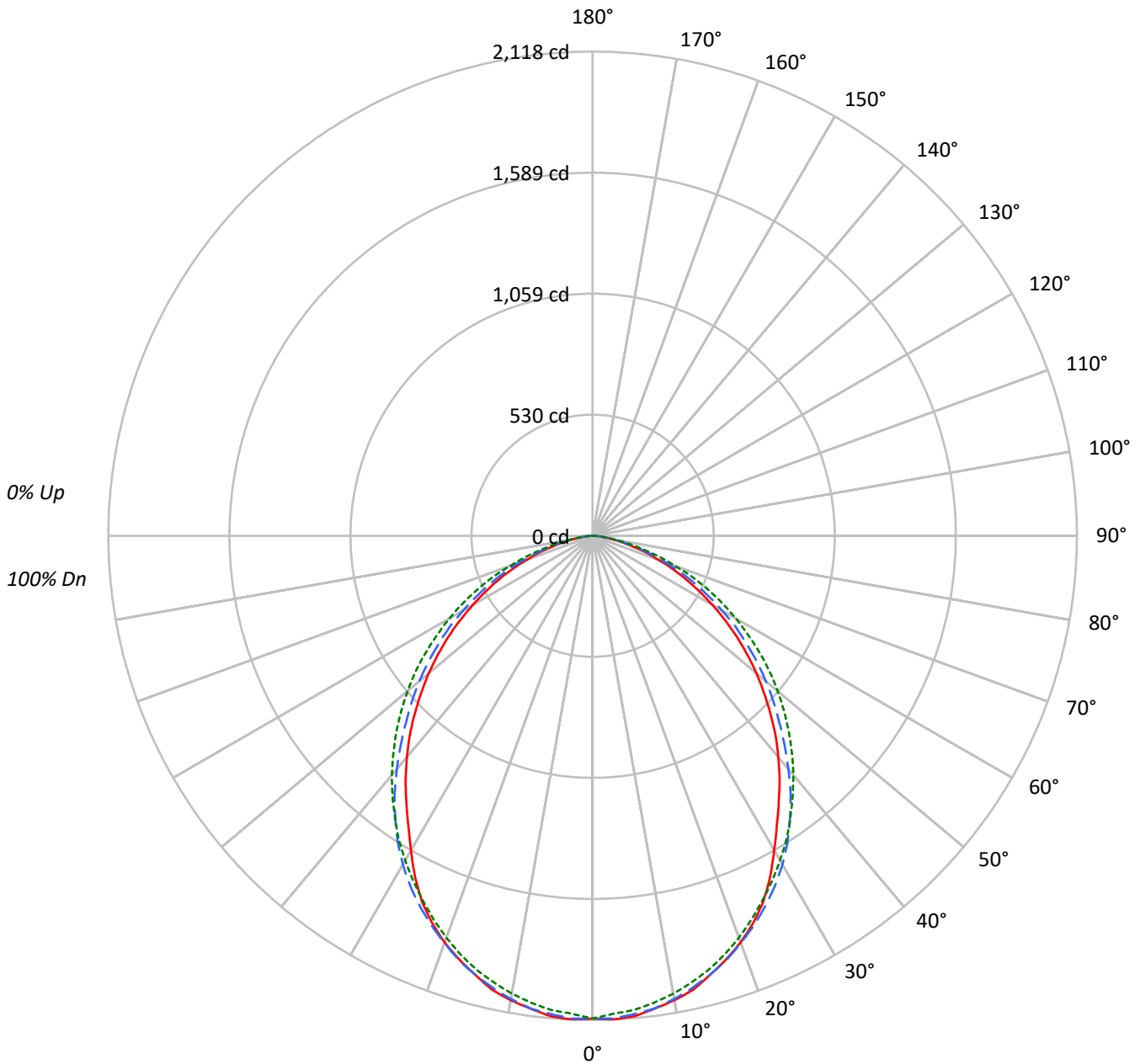
Lumens per Lamp: N/A
Luminaire Lumens: 4883.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: FUSL-12-2-LD4-3HI-30-UNV-80-88-EDD

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°	11366	11366	11366
5°	11396	11347	11251
10°	11275	11244	11115
15°	11075	11075	10948
20°	10840	10854	10715
25°	10484	10614	10445
30°	9872	10316	10189
35°	9328	9887	9904
40°	8875	9353	9598
45°	8367	8787	9238
50°	7832	8281	8844
55°	7224	7704	8366
60°	6506	7030	7781
65°	5745	6250	7077
70°	4787	5323	6013
75°	3762	4250	4706
80°	2690	2991	3319
85°	1754	1754	1655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.8	4.1
10°-20°	558.6	11.4
20°-30°	816.3	16.7
30°-40°	926.5	19.0
40°-50°	894.4	18.3
50°-60°	737.8	15.1
60°-70°	491.3	10.1
70°-80°	219.9	4.5
80°-90°	39.3	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°	1573.7	32.2
0°-40°	2500.2	51.2
0°-60°	4132.5	84.6
0°-90°	4883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2109	2108	2100	2089	2083	200
15°	1988	1992	1988	1979	1965	560
25°	1765	1779	1787	1774	1759	808
35°	1420	1439	1505	1513	1507	890
45°	1099	1118	1154	1207	1214	848
55°	770	783	821	866	892	687
65°	451	463	491	526	556	447
75°	181	191	204	214	226	198
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2117.5	2118.3	2113.4	2100.4	2092.3
5°	2109.3	2108.5	2100.4	2089.1	2082.6
7.5°	2085.8	2087.4	2085.0	2068.8	2059.8
10°	2063.1	2063.9	2057.4	2044.4	2033.9
12.5°	2033.9	2033.1	2024.2	2017.7	2000.6
15°	1987.6	1992.5	1987.6	1978.7	1964.9
17.5°	1943.0	1943.0	1946.3	1930.9	1920.3
20°	1892.7	1895.2	1895.2	1883.0	1870.8
22.5°	1834.3	1841.6	1844.0	1831.1	1816.5
25°	1765.4	1779.1	1787.3	1774.3	1758.9
27.5°	1681.8	1702.9	1727.2	1717.5	1700.5
30°	1588.5	1619.3	1659.9	1651.8	1639.6
32.5°	1500.1	1530.9	1586.9	1583.6	1577.1
35°	1419.7	1439.2	1504.9	1513.0	1507.4
37.5°	1343.5	1361.3	1423.0	1441.7	1436.8
40°	1263.2	1282.6	1331.3	1364.6	1366.2
42.5°	1183.7	1202.3	1242.1	1289.9	1289.9
45°	1099.3	1117.9	1154.5	1207.2	1213.7
47.5°	1016.5	1036.0	1071.7	1124.4	1135.0
50°	935.4	953.3	989.0	1040.1	1056.3
52.5°	851.0	870.5	905.4	952.4	976.0
55°	769.9	782.9	821.0	866.5	891.6
57.5°	685.5	697.7	740.7	779.6	805.6
60°	604.4	619.8	653.1	692.8	722.9
62.5°	526.5	542.7	571.1	606.0	640.1
65°	451.1	463.2	490.8	525.7	555.7
67.5°	378.1	388.6	416.2	440.5	472.2
70°	304.2	318.0	338.3	361.8	382.1
72.5°	245.0	250.7	267.7	284.8	305.9
75°	180.9	190.7	204.4	214.2	226.3
77.5°	129.8	135.5	143.6	151.7	163.1
80°	86.8	89.2	96.5	98.2	107.1
82.5°	52.7	54.4	56.0	56.8	60.0
85°	28.4	28.4	28.4	26.8	26.8
87.5°	16.2	16.2	13.8	11.4	8.1
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)