

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: P555466

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-94-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: P555466
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-35-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

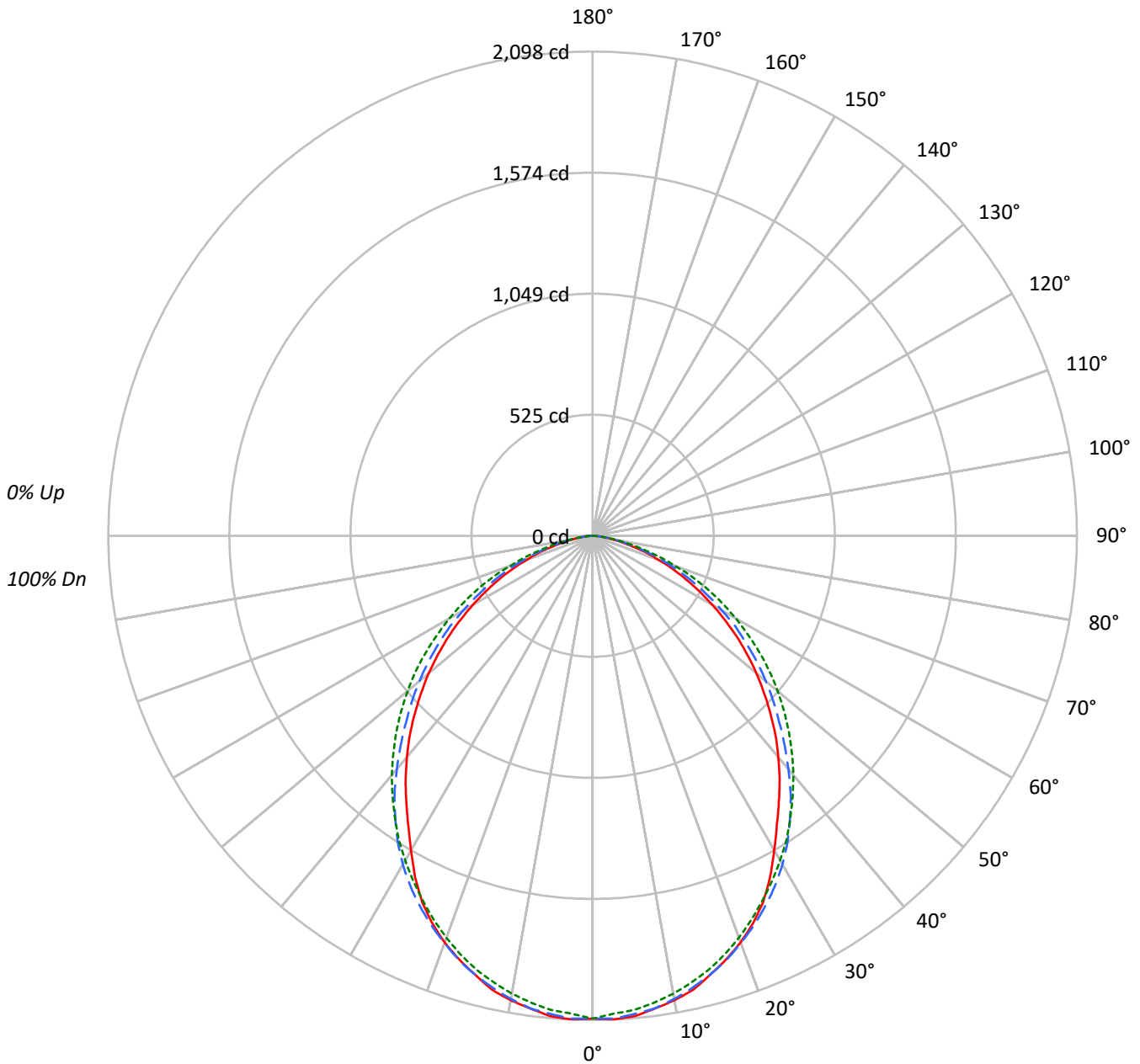
Lumens per Lamp: N/A
Luminaire Lumens: 4837.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11289	11240	11145
10°	11169	11138	11010
15°	10970	10970	10845
20°	10738	10752	10614
25°	10384	10513	10346
30°	9779	10218	10094
35°	9240	9795	9811
40°	8791	9265	9508
45°	8288	8704	9150
50°	7758	8202	8761
55°	7157	7631	8287
60°	6444	6963	7707
65°	5690	6192	7011
70°	4743	5273	5956
75°	3726	4211	4662
80°	2665	2963	3288
85°	1735	1735	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	4.1
10°-20°	553.3	11.4
20°-30°	808.6	16.7
30°-40°	917.8	19.0
40°-50°	886.0	18.3
50°-60°	730.9	15.1
60°-70°	486.7	10.1
70°-80°	217.8	4.5
80°-90°	39.0	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°	1558.8	32.2
0°-40°	2476.6	51.2
0°-60°	4093.5	84.6
0°-90°	4837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2090	2089	2081	2069	2063	198
15°	1969	1974	1969	1960	1946	555
25°	1749	1762	1770	1758	1742	801
35°	1406	1426	1491	1499	1493	881
45°	1089	1107	1144	1196	1202	840
55°	763	776	813	858	883	681
65°	447	459	486	521	550	443
75°	179	189	202	212	224	196
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2091.9	2091.9	2091.9	2091.9	2091.9
2.5°	2097.5	2098.3	2093.5	2080.6	2072.6
5°	2089.5	2088.7	2080.6	2069.4	2062.9
7.5°	2066.2	2067.8	2065.4	2049.3	2040.4
10°	2043.7	2044.5	2038.0	2025.2	2014.7
12.5°	2014.7	2013.9	2005.1	1998.7	1981.8
15°	1968.9	1973.7	1968.9	1960.1	1946.4
17.5°	1924.7	1924.7	1927.9	1912.7	1902.2
20°	1874.9	1877.3	1877.3	1865.3	1853.2
22.5°	1817.0	1824.3	1826.7	1813.8	1799.4
25°	1748.7	1762.4	1770.4	1757.6	1742.3
27.5°	1665.9	1686.8	1711.0	1701.3	1684.4
30°	1573.5	1604.1	1644.2	1636.2	1624.2
32.5°	1485.9	1516.5	1571.9	1568.7	1562.3
35°	1406.4	1425.7	1490.8	1498.8	1493.2
37.5°	1330.8	1348.5	1409.6	1428.1	1423.2
40°	1251.3	1270.6	1318.8	1351.7	1353.3
42.5°	1172.5	1191.0	1230.4	1277.8	1277.8
45°	1088.9	1107.4	1143.6	1195.8	1202.2
47.5°	1007.0	1026.2	1061.6	1113.8	1124.3
50°	926.6	944.3	979.6	1030.3	1046.3
52.5°	843.0	862.3	896.9	943.5	966.8
55°	762.7	775.5	813.3	858.3	883.2
57.5°	679.1	691.1	733.7	772.3	798.0
60°	598.7	614.0	646.9	686.3	716.0
62.5°	521.6	537.6	565.8	600.3	634.1
65°	446.8	458.9	486.2	520.8	550.5
67.5°	374.5	384.9	412.3	436.4	467.7
70°	301.4	315.0	335.1	358.4	378.5
72.5°	242.7	248.3	265.2	282.1	303.0
75°	179.2	188.9	202.5	212.2	224.2
77.5°	128.6	134.2	142.2	150.3	161.5
80°	86.0	88.4	95.6	97.2	106.1
82.5°	52.2	53.8	55.5	56.3	59.5
85°	28.1	28.1	28.1	26.5	26.5
87.5°	16.1	16.1	13.7	11.3	8.0
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)