

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: P555398

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-87-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: P555398
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-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

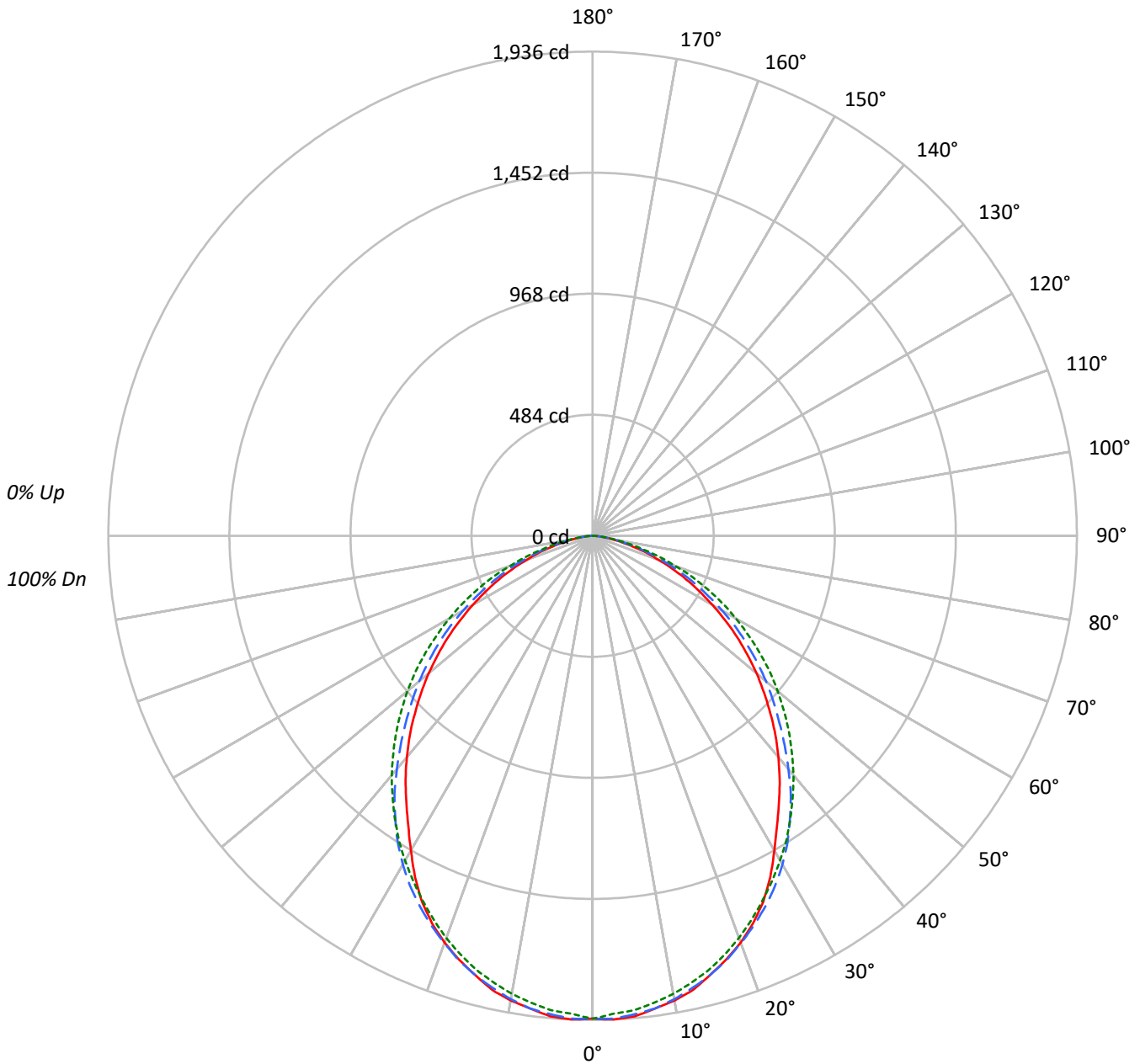
Lumens per Lamp: N/A
Luminaire Lumens: 4465.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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					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°	10393	10393	10393
5°	10420	10376	10288
10°	10310	10281	10164
15°	10127	10127	10011
20°	9912	9925	9798
25°	9586	9705	9551
30°	9027	9432	9317
35°	8529	9041	9056
40°	8115	8553	8777
45°	7651	8034	8447
50°	7161	7572	8087
55°	6606	7044	7650
60°	5949	6428	7115
65°	5253	5715	6472
70°	4378	4867	5498
75°	3439	3886	4304
80°	2461	2737	3034
85°	1606	1606	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	4.1
10°-20°	510.8	11.4
20°-30°	746.4	16.7
30°-40°	847.2	19.0
40°-50°	817.9	18.3
50°-60°	674.7	15.1
60°-70°	449.3	10.1
70°-80°	201.0	4.5
80°-90°	36.0	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°	1438.9	32.2
0°-40°	2286.2	51.2
0°-60°	3778.7	84.6
0°-90°	4465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1929	1928	1921	1910	1904	183
15°	1818	1822	1818	1809	1797	512
25°	1614	1627	1634	1622	1608	739
35°	1298	1316	1376	1384	1378	813
45°	1005	1022	1056	1104	1110	776
55°	704	716	751	792	815	628
65°	412	424	449	481	508	409
75°	165	174	187	196	207	181
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°	1931.0	1931.0	1931.0	1931.0	1931.0
2.5°	1936.2	1936.9	1932.5	1920.6	1913.2
5°	1928.8	1928.0	1920.6	1910.2	1904.3
7.5°	1907.3	1908.7	1906.5	1891.7	1883.5
10°	1886.5	1887.2	1881.3	1869.4	1859.8
12.5°	1859.8	1859.0	1850.9	1844.9	1829.4
15°	1817.5	1821.9	1817.5	1809.3	1796.7
17.5°	1776.7	1776.7	1779.7	1765.6	1755.9
20°	1730.7	1732.9	1732.9	1721.8	1710.7
22.5°	1677.3	1684.0	1686.2	1674.3	1661.0
25°	1614.2	1626.8	1634.3	1622.4	1608.3
27.5°	1537.8	1557.1	1579.4	1570.5	1554.9
30°	1452.5	1480.7	1517.8	1510.4	1499.2
32.5°	1371.7	1399.8	1451.0	1448.1	1442.1
35°	1298.2	1316.0	1376.1	1383.5	1378.3
37.5°	1228.5	1244.8	1301.2	1318.2	1313.8
40°	1155.0	1172.8	1217.4	1247.8	1249.3
42.5°	1082.3	1099.4	1135.7	1179.5	1179.5
45°	1005.2	1022.2	1055.6	1103.9	1109.8
47.5°	929.5	947.3	980.0	1028.2	1037.8
50°	855.3	871.7	904.3	951.0	965.9
52.5°	778.2	796.0	827.9	870.9	892.4
55°	704.0	715.9	750.7	792.3	815.3
57.5°	626.9	638.0	677.3	712.9	736.6
60°	552.7	566.8	597.2	633.5	661.0
62.5°	481.5	496.3	522.3	554.2	585.3
65°	412.5	423.6	448.8	480.7	508.2
67.5°	345.7	355.3	380.6	402.8	431.7
70°	278.2	290.8	309.3	330.9	349.4
72.5°	224.0	229.2	244.8	260.4	279.7
75°	165.4	174.3	186.9	195.8	207.0
77.5°	118.7	123.9	131.3	138.7	149.1
80°	79.4	81.6	88.3	89.8	97.9
82.5°	48.2	49.7	51.2	51.9	54.9
85°	26.0	26.0	26.0	24.5	24.5
87.5°	14.8	14.8	12.6	10.4	7.4
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)