

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: P555410

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-82-85-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: P555410
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-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

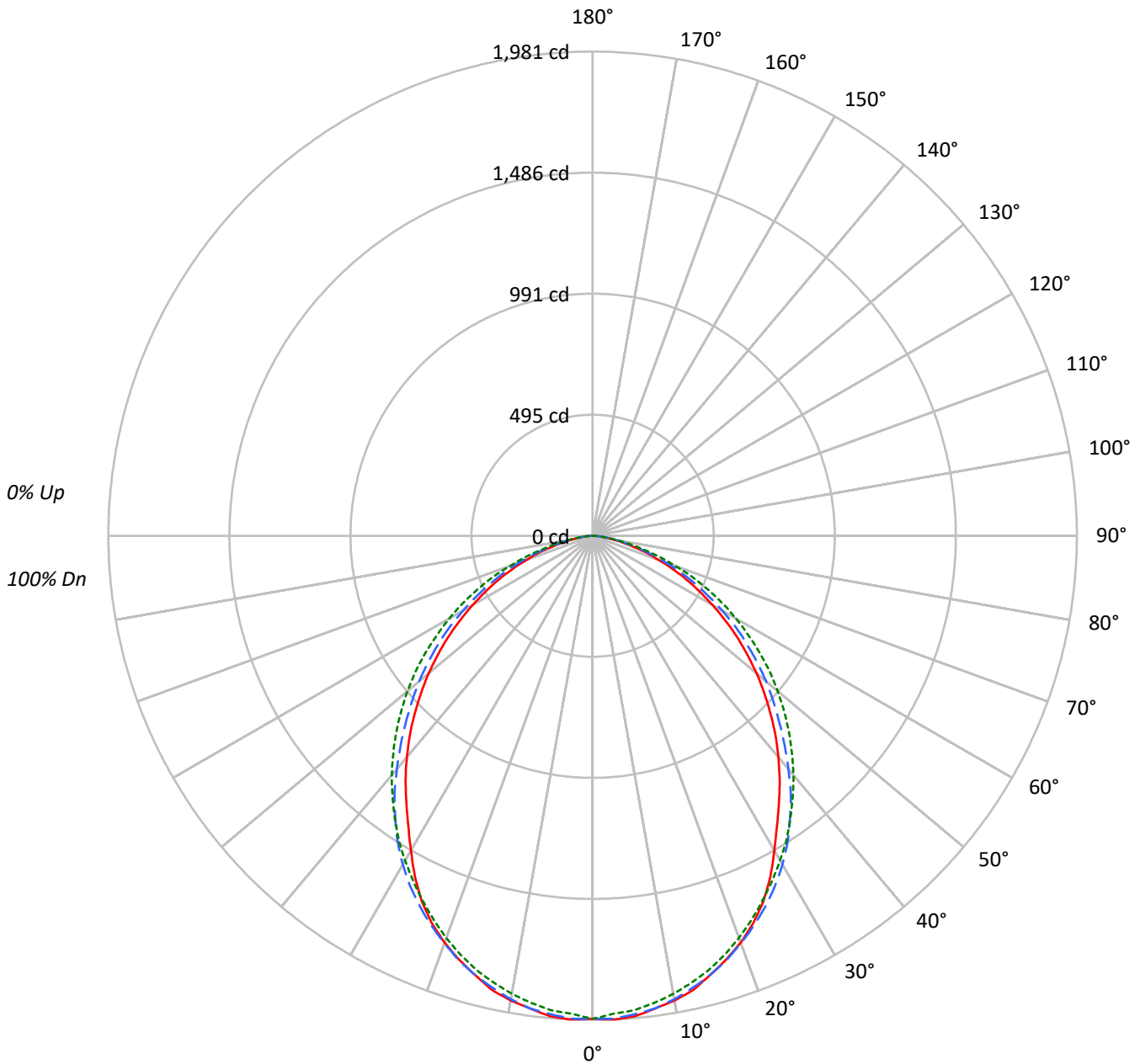
Lumens per Lamp: N/A
Luminaire Lumens: 4569.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	10635	10635	10635
5°	10663	10618	10527
10°	10550	10521	10400
15°	10362	10362	10244
20°	10143	10156	10026
25°	9809	9931	9773
30°	9237	9652	9534
35°	8728	9252	9267
40°	8304	8752	8981
45°	7829	8222	8643
50°	7329	7748	8276
55°	6760	7208	7828
60°	6087	6578	7281
65°	5375	5849	6622
70°	4480	4982	5626
75°	3520	3978	4404
80°	2517	2799	3106
85°	1643	1643	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	4.1
10°-20°	522.6	11.4
20°-30°	763.8	16.7
30°-40°	867.0	19.0
40°-50°	836.9	18.3
50°-60°	690.4	15.1
60°-70°	459.8	10.1
70°-80°	205.7	4.5
80°-90°	36.8	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°	1472.5	32.2
0°-40°	2339.4	51.2
0°-60°	3866.7	84.6
0°-90°	4569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1974	1973	1965	1955	1949	187
15°	1860	1864	1860	1852	1839	524
25°	1652	1665	1672	1660	1646	756
35°	1328	1347	1408	1416	1410	832
45°	1029	1046	1080	1130	1136	794
55°	720	732	768	811	834	643
65°	422	434	459	492	520	419
75°	169	178	191	200	212	185
85°	27	27	27	25	25	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.0	1976.0	1976.0	1976.0	1976.0
2.5°	1981.3	1982.0	1977.5	1965.3	1957.8
5°	1973.7	1972.9	1965.3	1954.7	1948.6
7.5°	1951.7	1953.2	1950.9	1935.7	1927.4
10°	1930.4	1931.2	1925.1	1913.0	1903.1
12.5°	1903.1	1902.3	1894.0	1887.9	1872.0
15°	1859.8	1864.4	1859.8	1851.5	1838.6
17.5°	1818.1	1818.1	1821.1	1806.7	1796.8
20°	1771.0	1773.3	1773.3	1761.9	1750.5
22.5°	1716.4	1723.2	1725.5	1713.3	1699.7
25°	1651.8	1664.7	1672.3	1660.2	1645.8
27.5°	1573.6	1593.4	1616.2	1607.0	1591.1
30°	1486.3	1515.2	1553.1	1545.6	1534.2
32.5°	1403.6	1432.4	1484.8	1481.8	1475.7
35°	1328.5	1346.7	1408.2	1415.7	1410.4
37.5°	1257.1	1273.8	1331.5	1348.9	1344.4
40°	1181.9	1200.2	1245.7	1276.8	1278.3
42.5°	1107.5	1125.0	1162.2	1207.0	1207.0
45°	1028.6	1046.1	1080.2	1129.6	1135.6
47.5°	951.2	969.4	1002.8	1052.1	1062.0
50°	875.3	892.0	925.4	973.2	988.4
52.5°	796.3	814.5	847.2	891.2	913.2
55°	720.4	732.5	768.2	810.7	834.3
57.5°	641.5	652.8	693.1	729.5	753.8
60°	565.5	580.0	611.1	648.3	676.4
62.5°	492.7	507.8	534.4	567.1	598.9
65°	422.1	433.5	459.3	491.9	520.0
67.5°	353.7	363.6	389.4	412.2	441.8
70°	284.7	297.6	316.6	338.6	357.5
72.5°	229.3	234.6	250.5	266.4	286.2
75°	169.3	178.4	191.3	200.4	211.8
77.5°	121.5	126.8	134.4	142.0	152.6
80°	81.2	83.5	90.3	91.9	100.2
82.5°	49.3	50.9	52.4	53.1	56.2
85°	26.6	26.6	26.6	25.1	25.1
87.5°	15.2	15.2	12.9	10.6	7.6
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)