

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: P556283

Luminaire Tested: **FUSL-12-4-LD4-1HI-40-UNV-80-94-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: P556283
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-12-4-LD4-1HI-40-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

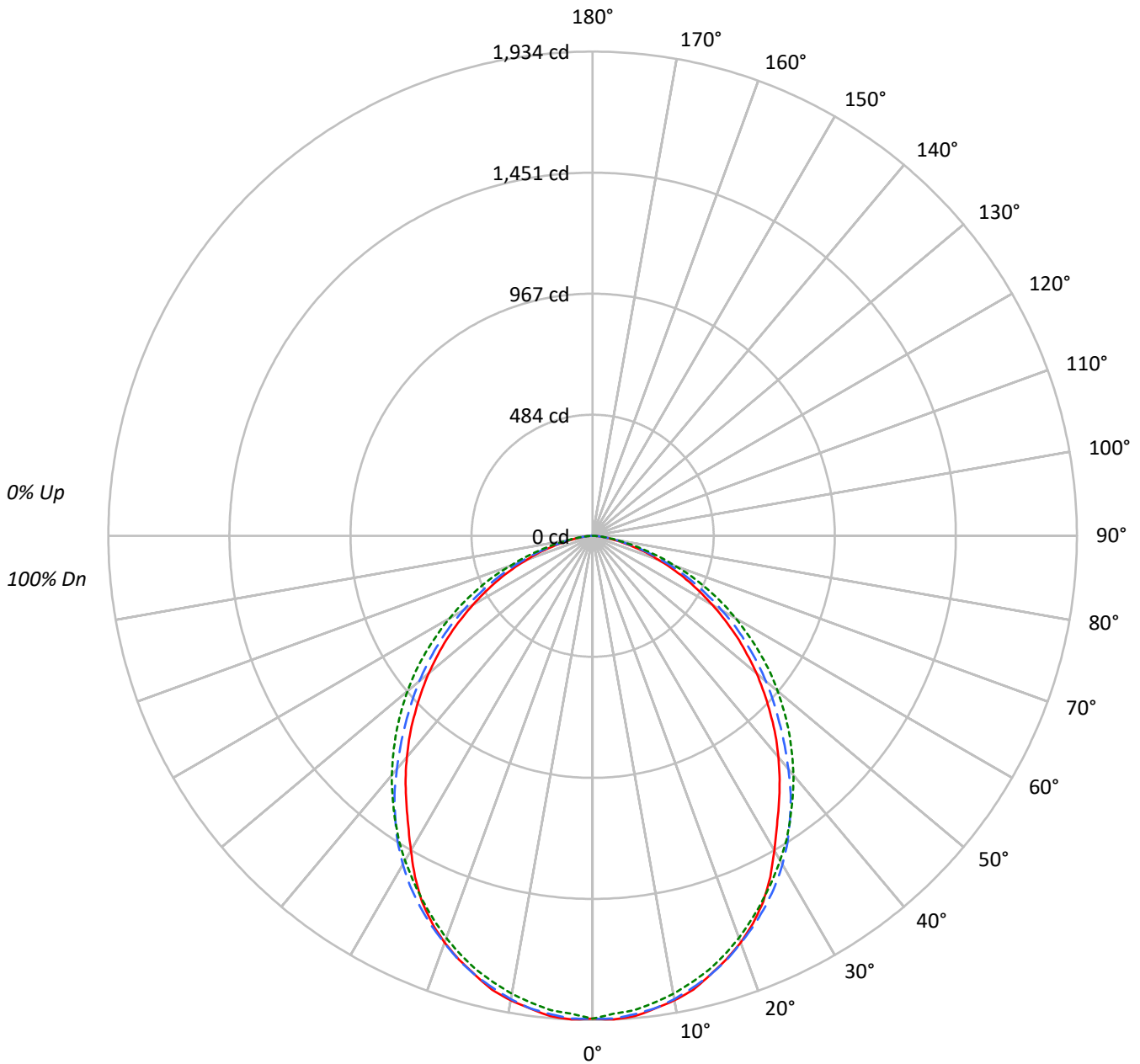
Lumens per Lamp: N/A
Luminaire Lumens: 4460.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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									
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°	5190	5190	5190
5°	5204	5182	5138
10°	5149	5135	5076
15°	5058	5058	5000
20°	4951	4957	4893
25°	4787	4847	4770
30°	4508	4711	4653
35°	4260	4516	4523
40°	4053	4272	4384
45°	3821	4013	4219
50°	3577	3782	4039
55°	3299	3518	3821
60°	2971	3210	3553
65°	2623	2855	3232
70°	2186	2431	2746
75°	1718	1941	2149
80°	1229	1367	1516
85°	800	800	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	4.1
10°-20°	510.2	11.4
20°-30°	745.5	16.7
30°-40°	846.3	19.0
40°-50°	816.9	18.3
50°-60°	673.9	15.1
60°-70°	448.8	10.1
70°-80°	200.8	4.5
80°-90°	35.9	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°	1437.3	32.2
0°-40°	2283.6	51.2
0°-60°	3774.5	84.6
0°-90°	4460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1927	1926	1918	1908	1902	182
15°	1816	1820	1816	1807	1795	512
25°	1612	1625	1632	1621	1606	738
35°	1297	1314	1375	1382	1377	812
45°	1004	1021	1054	1103	1108	775
55°	703	715	750	791	814	628
65°	412	423	448	480	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°	1928.8	1928.8	1928.8	1928.8	1928.8
2.5°	1934.0	1934.8	1930.3	1918.5	1911.1
5°	1926.6	1925.9	1918.5	1908.1	1902.2
7.5°	1905.1	1906.6	1904.4	1889.6	1881.4
10°	1884.4	1885.1	1879.2	1867.3	1857.7
12.5°	1857.7	1857.0	1848.8	1842.9	1827.3
15°	1815.5	1819.9	1815.5	1807.3	1794.7
17.5°	1774.7	1774.7	1777.7	1763.6	1754.0
20°	1728.8	1731.0	1731.0	1719.9	1708.8
22.5°	1675.4	1682.1	1684.3	1672.4	1659.1
25°	1612.4	1625.0	1632.4	1620.6	1606.5
27.5°	1536.1	1555.4	1577.6	1568.7	1553.1
30°	1450.9	1479.0	1516.1	1508.7	1497.6
32.5°	1370.1	1398.3	1449.4	1446.4	1440.5
35°	1296.8	1314.5	1374.6	1382.0	1376.8
37.5°	1227.1	1243.4	1299.7	1316.8	1312.3
40°	1153.7	1171.5	1216.0	1246.4	1247.9
42.5°	1081.1	1098.2	1134.5	1178.2	1178.2
45°	1004.1	1021.1	1054.4	1102.6	1108.5
47.5°	928.5	946.3	978.9	1027.0	1036.7
50°	854.4	870.7	903.3	950.0	964.8
52.5°	777.3	795.1	827.0	869.9	891.4
55°	703.2	715.1	749.9	791.4	814.4
57.5°	626.1	637.3	676.5	712.1	735.8
60°	552.0	566.1	596.5	632.8	660.2
62.5°	480.9	495.7	521.7	553.5	584.7
65°	412.0	423.1	448.3	480.2	507.6
67.5°	345.3	354.9	380.1	402.4	431.3
70°	277.9	290.5	309.0	330.5	349.0
72.5°	223.8	229.0	244.5	260.1	279.4
75°	165.2	174.1	186.7	195.6	206.7
77.5°	118.6	123.7	131.2	138.6	148.9
80°	79.3	81.5	88.2	89.7	97.8
82.5°	48.2	49.6	51.1	51.9	54.8
85°	25.9	25.9	25.9	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)