

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: P556267

Luminaire Tested: **FUSL-12-4-LD4-1HI-35-UNV-93-94-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: P556267
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-35-UNV-93-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

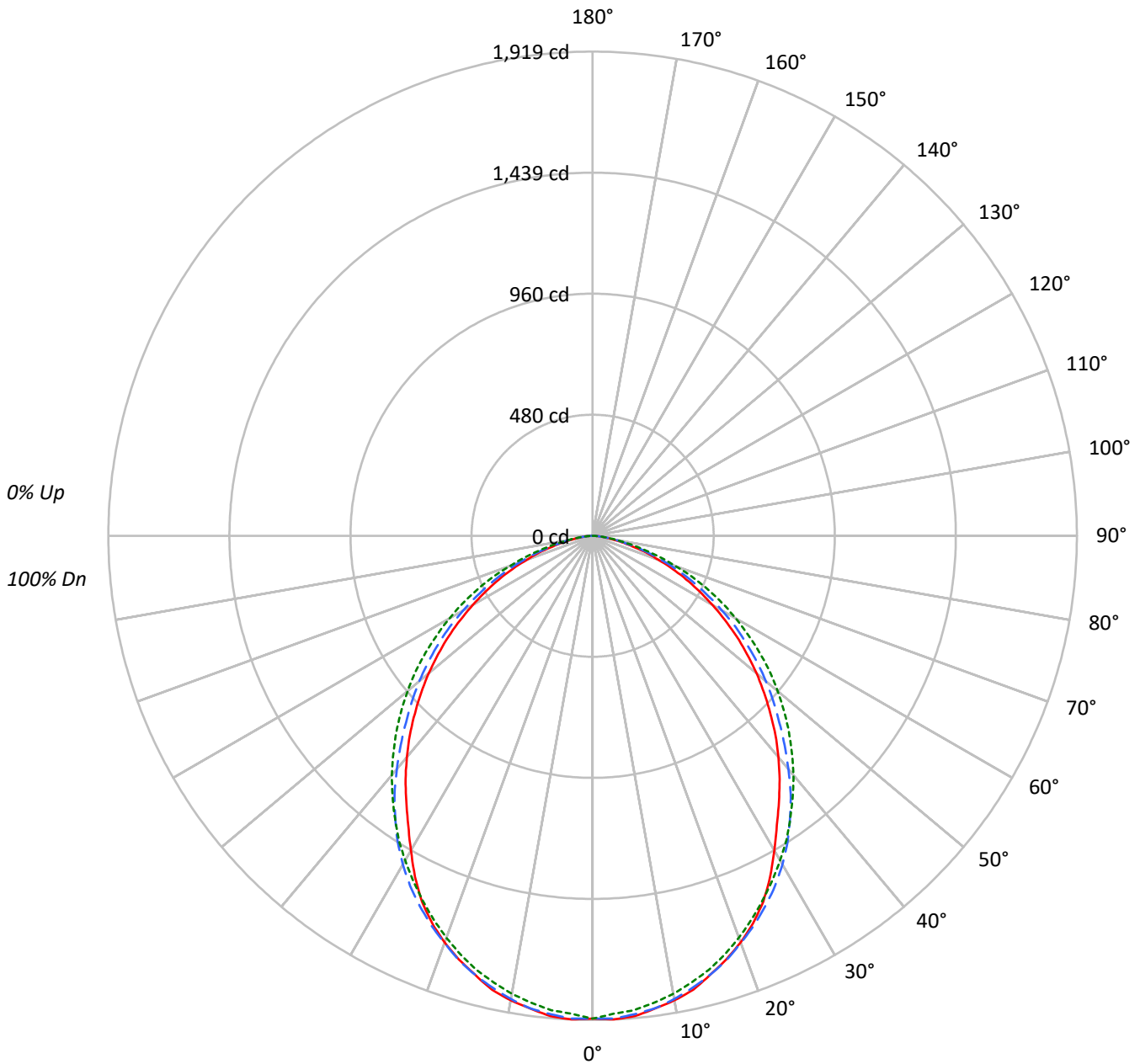
Lumens per Lamp: N/A
Luminaire Lumens: 4425.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5150	5150	5150
5°	5163	5142	5098
10°	5109	5094	5036
15°	5018	5018	4961
20°	4912	4918	4855
25°	4750	4809	4733
30°	4473	4674	4617
35°	4227	4480	4487
40°	4021	4238	4349
45°	3791	3981	4185
50°	3549	3752	4007
55°	3273	3491	3791
60°	2948	3185	3526
65°	2603	2832	3207
70°	2169	2412	2725
75°	1704	1927	2132
80°	1220	1356	1503
85°	794	794	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	4.1
10°-20°	506.2	11.4
20°-30°	739.7	16.7
30°-40°	839.6	19.0
40°-50°	810.5	18.3
50°-60°	668.6	15.1
60°-70°	445.3	10.1
70°-80°	199.3	4.5
80°-90°	35.7	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°	1426.1	32.2
0°-40°	2265.7	51.2
0°-60°	3744.9	84.6
0°-90°	4425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1914	1914	1914	1914	1914	
5°	1912	1911	1903	1893	1887	181
15°	1801	1806	1801	1793	1781	508
25°	1600	1612	1620	1608	1594	733
35°	1287	1304	1364	1371	1366	806
45°	996	1013	1046	1094	1100	769
55°	698	710	744	785	808	623
65°	409	420	445	476	504	405
75°	164	173	185	194	205	179
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°	1913.7	1913.7	1913.7	1913.7	1913.7
2.5°	1918.8	1919.6	1915.2	1903.4	1896.1
5°	1911.5	1910.8	1903.4	1893.1	1887.2
7.5°	1890.2	1891.6	1889.4	1874.7	1866.6
10°	1869.6	1870.3	1864.4	1852.7	1843.1
12.5°	1843.1	1842.4	1834.3	1828.4	1813.0
15°	1801.2	1805.6	1801.2	1793.1	1780.6
17.5°	1760.8	1760.8	1763.7	1749.8	1740.2
20°	1715.2	1717.4	1717.4	1706.4	1695.3
22.5°	1662.3	1668.9	1671.1	1659.3	1646.1
25°	1599.8	1612.3	1619.6	1607.9	1593.9
27.5°	1524.0	1543.2	1565.2	1556.4	1541.0
30°	1439.5	1467.4	1504.2	1496.8	1485.8
32.5°	1359.4	1387.3	1438.0	1435.1	1429.2
35°	1286.6	1304.2	1363.8	1371.1	1366.0
37.5°	1217.5	1233.6	1289.5	1306.4	1302.0
40°	1144.7	1162.3	1206.4	1236.6	1238.1
42.5°	1072.6	1089.6	1125.6	1169.0	1169.0
45°	996.2	1013.1	1046.2	1094.0	1099.8
47.5°	921.2	938.8	971.2	1019.0	1028.5
50°	847.7	863.8	896.2	942.5	957.2
52.5°	771.2	788.9	820.5	863.1	884.4
55°	697.7	709.5	744.0	785.2	808.0
57.5°	621.2	632.3	671.2	706.5	730.0
60°	547.7	561.7	591.8	627.9	655.1
62.5°	477.1	491.8	517.6	549.2	580.1
65°	408.8	419.8	444.8	476.4	503.6
67.5°	342.6	352.2	377.2	399.2	427.9
70°	275.7	288.2	306.6	327.9	346.3
72.5°	222.0	227.2	242.6	258.1	277.2
75°	163.9	172.8	185.3	194.1	205.1
77.5°	117.6	122.8	130.1	137.5	147.8
80°	78.7	80.9	87.5	89.0	97.0
82.5°	47.8	49.3	50.7	51.5	54.4
85°	25.7	25.7	25.7	24.3	24.3
87.5°	14.7	14.7	12.5	10.3	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)