

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: P555474

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-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: P555474
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-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

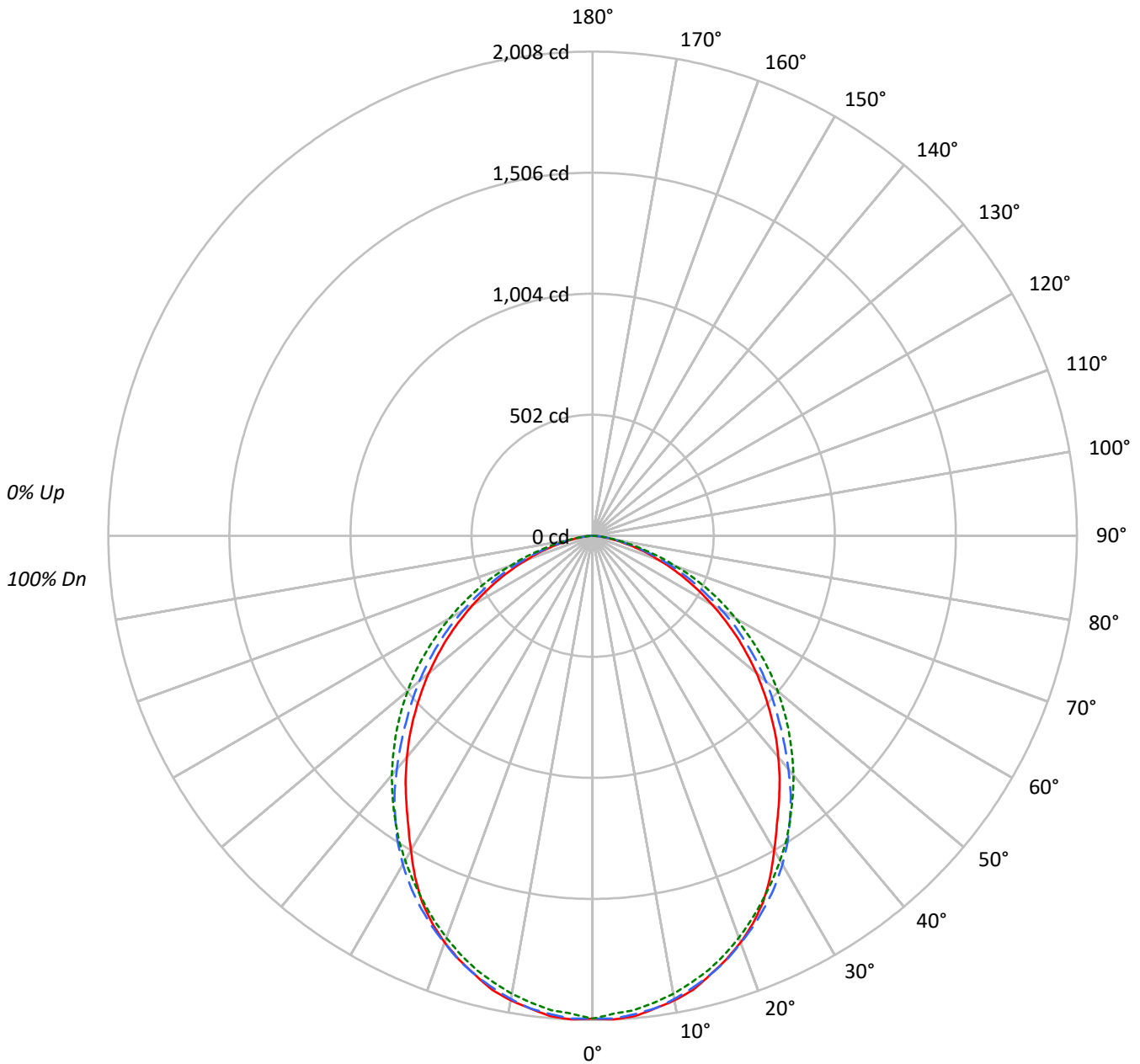
Lumens per Lamp: N/A
Luminaire Lumens: 4630.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	10777	10777	10777
5°	10805	10760	10668
10°	10691	10661	10539
15°	10501	10501	10381
20°	10279	10292	10160
25°	9940	10064	9903
30°	9360	9781	9662
35°	8845	9376	9391
40°	8415	8868	9101
45°	7933	8331	8759
50°	7426	7851	8386
55°	6850	7305	7933
60°	6169	6665	7378
65°	5447	5927	6710
70°	4540	5048	5701
75°	3566	4032	4462
80°	2551	2836	3146
85°	1661	1661	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	4.1
10°-20°	529.6	11.4
20°-30°	774.0	16.7
30°-40°	878.5	19.0
40°-50°	848.1	18.3
50°-60°	699.6	15.1
60°-70°	465.9	10.1
70°-80°	208.5	4.5
80°-90°	37.3	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°	1492.1	32.2
0°-40°	2370.7	51.2
0°-60°	3918.3	84.6
0°-90°	4630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	2000	1999	1992	1981	1975	189
15°	1885	1889	1885	1876	1863	531
25°	1674	1687	1695	1682	1668	767
35°	1346	1365	1427	1435	1429	843
45°	1042	1060	1095	1145	1151	804
55°	730	742	778	822	845	652
65°	428	439	465	498	527	424
75°	172	181	194	203	215	188
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°	2002.4	2002.4	2002.4	2002.4	2002.4
2.5°	2007.7	2008.5	2003.9	1991.6	1983.9
5°	2000.0	1999.3	1991.6	1980.8	1974.7
7.5°	1977.7	1979.3	1977.0	1961.6	1953.1
10°	1956.2	1957.0	1950.8	1938.5	1928.5
12.5°	1928.5	1927.7	1919.3	1913.1	1897.0
15°	1884.7	1889.3	1884.7	1876.2	1863.1
17.5°	1842.4	1842.4	1845.4	1830.8	1820.8
20°	1794.7	1797.0	1797.0	1785.4	1773.9
22.5°	1739.3	1746.2	1748.5	1736.2	1722.3
25°	1673.9	1687.0	1694.7	1682.3	1667.7
27.5°	1594.7	1614.7	1637.7	1628.5	1612.3
30°	1506.2	1535.4	1573.9	1566.2	1554.7
32.5°	1422.3	1451.6	1504.7	1501.6	1495.4
35°	1346.2	1364.6	1427.0	1434.6	1429.3
37.5°	1273.9	1290.8	1349.3	1367.0	1362.3
40°	1197.7	1216.2	1262.3	1293.9	1295.4
42.5°	1122.3	1140.0	1177.7	1223.1	1223.1
45°	1042.3	1060.0	1094.6	1144.6	1150.8
47.5°	963.9	982.3	1016.2	1066.2	1076.2
50°	886.9	903.9	937.7	986.2	1001.6
52.5°	806.9	825.4	858.5	903.1	925.4
55°	730.0	742.3	778.5	821.6	845.4
57.5°	650.0	661.6	702.3	739.2	763.9
60°	573.1	587.7	619.2	656.9	685.4
62.5°	499.2	514.6	541.6	574.6	606.9
65°	427.7	439.2	465.4	498.5	526.9
67.5°	358.5	368.5	394.6	417.7	447.7
70°	288.5	301.5	320.8	343.1	362.3
72.5°	232.3	237.7	253.9	270.0	290.0
75°	171.5	180.8	193.9	203.1	214.6
77.5°	123.1	128.5	136.2	143.8	154.6
80°	82.3	84.6	91.5	93.1	101.5
82.5°	50.0	51.5	53.1	53.8	56.9
85°	26.9	26.9	26.9	25.4	25.4
87.5°	15.4	15.4	13.1	10.8	7.7
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)