

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: P555532

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-81-96-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: P555532
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-40-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

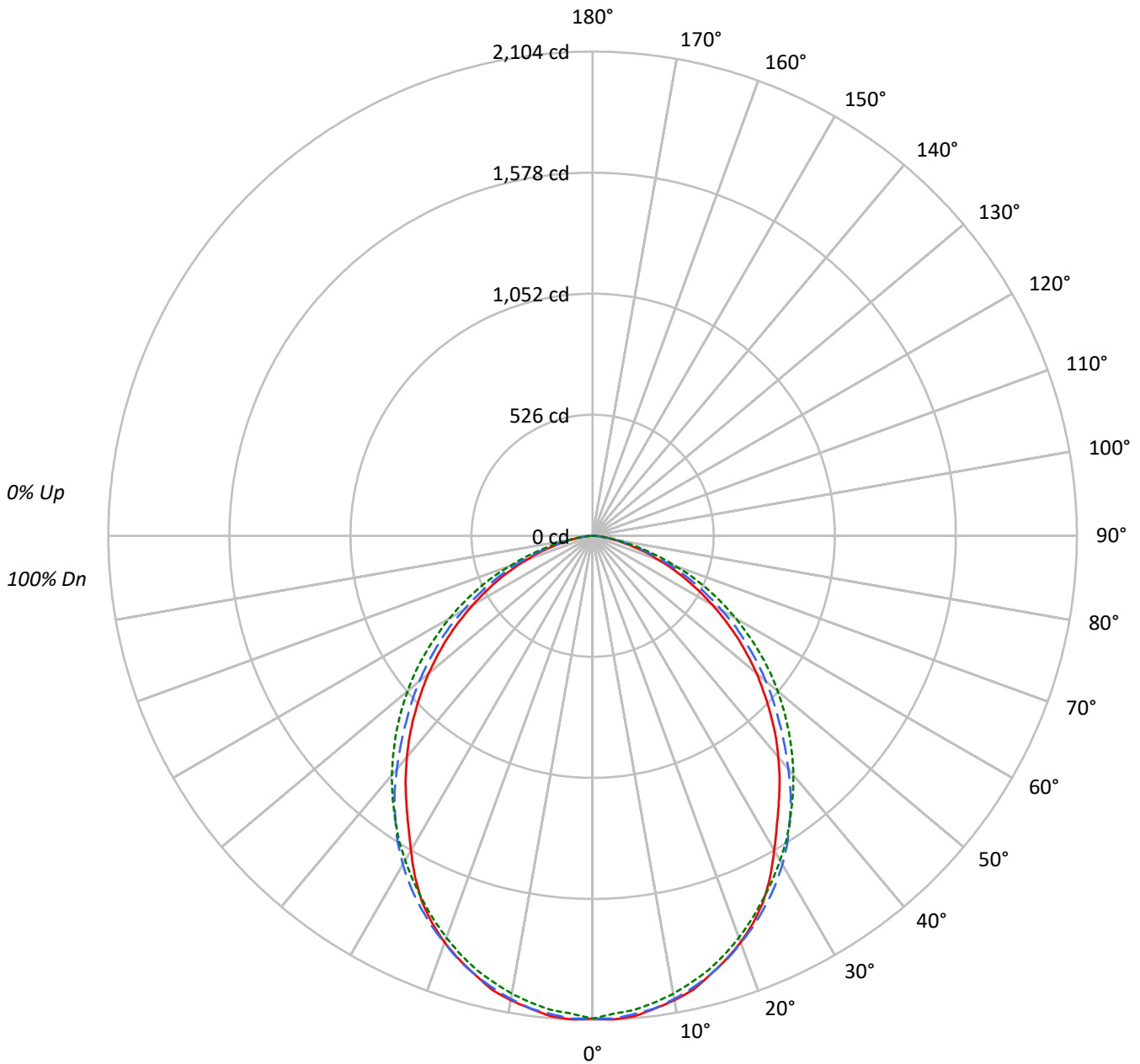
Lumens per Lamp: N/A
Luminaire Lumens: 4851.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	11291	11291	11291
5°	11321	11273	11177
10°	11201	11170	11043
15°	11002	11002	10877
20°	10769	10783	10645
25°	10415	10544	10376
30°	9807	10248	10123
35°	9267	9823	9839
40°	8816	9292	9535
45°	8312	8729	9177
50°	7781	8226	8786
55°	7177	7653	8312
60°	6463	6984	7730
65°	5706	6209	7031
70°	4755	5289	5973
75°	3737	4223	4677
80°	2672	2972	3298
85°	1741	1741	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.5	4.1
10°-20°	554.9	11.4
20°-30°	810.9	16.7
30°-40°	920.5	19.0
40°-50°	888.6	18.3
50°-60°	733.0	15.1
60°-70°	488.1	10.1
70°-80°	218.4	4.5
80°-90°	39.1	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°	1563.3	32.2
0°-40°	2483.8	51.2
0°-60°	4105.4	84.6
0°-90°	4851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4851.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2098	2098	2098	2098	2098	
5°	2096	2095	2087	2075	2069	198
15°	1975	1980	1975	1966	1952	557
25°	1754	1768	1776	1763	1747	803
35°	1410	1430	1495	1503	1498	884
45°	1092	1111	1147	1199	1206	843
55°	765	778	816	861	886	683
65°	448	460	488	522	552	444
75°	180	189	203	213	225	197
85°	28	28	28	27	27	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097.9	2097.9	2097.9	2097.9	2097.9
2.5°	2103.6	2104.4	2099.5	2086.6	2078.6
5°	2095.5	2094.7	2086.6	2075.4	2068.9
7.5°	2072.1	2073.8	2071.3	2055.2	2046.4
10°	2049.6	2050.4	2043.9	2031.0	2020.6
12.5°	2020.6	2019.8	2010.9	2004.4	1987.5
15°	1974.6	1979.5	1974.6	1965.8	1952.1
17.5°	1930.3	1930.3	1933.5	1918.2	1907.7
20°	1880.3	1882.7	1882.7	1870.6	1858.6
22.5°	1822.3	1829.5	1832.0	1819.1	1804.6
25°	1753.8	1767.5	1775.5	1762.6	1747.3
27.5°	1670.8	1691.7	1715.9	1706.2	1689.3
30°	1578.1	1608.7	1649.0	1640.9	1628.9
32.5°	1490.2	1520.9	1576.5	1573.2	1566.8
35°	1410.4	1429.8	1495.1	1503.1	1497.5
37.5°	1334.7	1352.4	1413.7	1432.2	1427.4
40°	1254.9	1274.2	1322.6	1355.6	1357.2
42.5°	1175.9	1194.4	1233.9	1281.5	1281.5
45°	1092.1	1110.6	1146.9	1199.3	1205.7
47.5°	1009.9	1029.2	1064.7	1117.1	1127.5
50°	929.3	947.0	982.5	1033.2	1049.4
52.5°	845.5	864.8	899.5	946.2	969.6
55°	764.9	777.8	815.6	860.8	885.8
57.5°	681.0	693.1	735.8	774.5	800.3
60°	600.4	615.8	648.8	688.3	718.1
62.5°	523.1	539.2	567.4	602.1	635.9
65°	448.1	460.2	487.6	522.3	552.1
67.5°	375.6	386.1	413.5	437.6	469.1
70°	302.2	315.9	336.1	359.5	379.6
72.5°	243.4	249.0	266.0	282.9	303.8
75°	179.7	189.4	203.1	212.8	224.9
77.5°	129.0	134.6	142.7	150.7	162.0
80°	86.2	88.7	95.9	97.5	106.4
82.5°	52.4	54.0	55.6	56.4	59.6
85°	28.2	28.2	28.2	26.6	26.6
87.5°	16.1	16.1	13.7	11.3	8.1
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)