

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: P555421

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-82-96-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: P555421
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-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

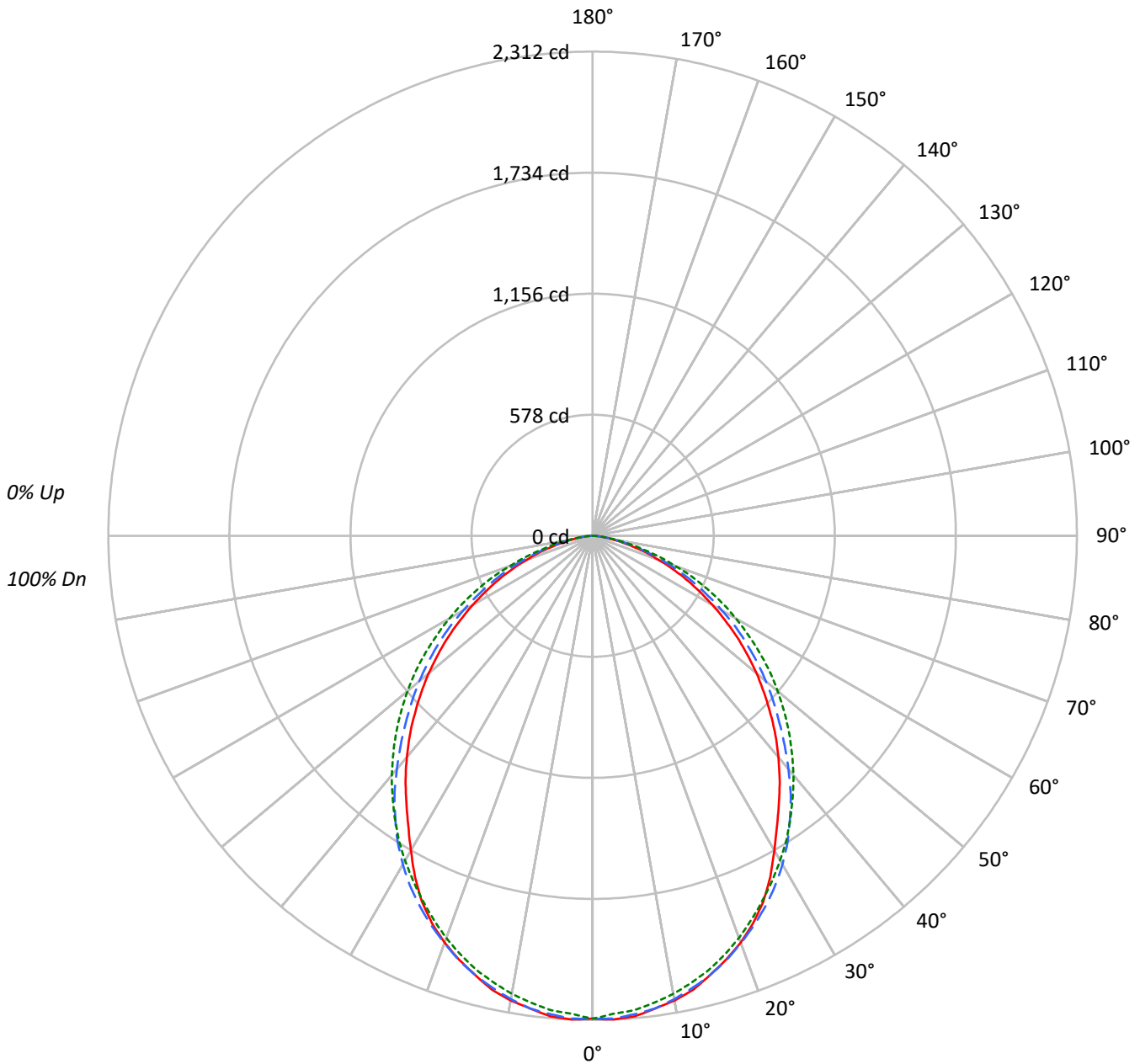
Lumens per Lamp: N/A
Luminaire Lumens: 5332.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	12411	12411	12411
5°	12444	12391	12286
10°	12312	12278	12137
15°	12093	12093	11955
20°	11837	11852	11700
25°	11447	11589	11405
30°	10780	11264	11127
35°	10186	10797	10814
40°	9690	10213	10481
45°	9137	9595	10087
50°	8552	9042	9657
55°	7888	8412	9135
60°	7104	7676	8496
65°	6273	6826	7727
70°	5227	5813	6567
75°	4109	4641	5140
80°	2938	3267	3623
85°	1914	1914	1803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	4.1
10°-20°	609.9	11.4
20°-30°	891.3	16.7
30°-40°	1011.7	19.0
40°-50°	976.7	18.3
50°-60°	805.7	15.1
60°-70°	536.5	10.1
70°-80°	240.1	4.5
80°-90°	42.9	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°	1718.3	32.2
0°-40°	2730.1	51.2
0°-60°	4512.4	84.6
0°-90°	5332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2306	2306	2306	2306	2306	
5°	2303	2302	2294	2281	2274	218
15°	2170	2176	2170	2161	2146	612
25°	1928	1943	1952	1937	1921	883
35°	1550	1572	1643	1652	1646	971
45°	1200	1221	1261	1318	1325	926
55°	841	855	896	946	974	750
65°	493	506	536	574	607	488
75°	198	208	223	234	247	216
85°	31	31	31	29	29	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2306.0	2306.0	2306.0	2306.0	2306.0
2.5°	2312.2	2313.0	2307.7	2293.5	2284.7
5°	2303.3	2302.4	2293.5	2281.1	2274.1
7.5°	2277.6	2279.4	2276.7	2259.0	2249.3
10°	2252.8	2253.7	2246.6	2232.4	2220.9
12.5°	2220.9	2220.0	2210.3	2203.2	2184.6
15°	2170.4	2175.7	2170.4	2160.7	2145.6
17.5°	2121.7	2121.7	2125.2	2108.4	2096.9
20°	2066.8	2069.4	2069.4	2056.1	2042.8
22.5°	2003.0	2011.0	2013.6	1999.4	1983.5
25°	1927.7	1942.7	1951.6	1937.4	1920.6
27.5°	1836.4	1859.5	1886.0	1875.4	1856.8
30°	1734.6	1768.2	1812.5	1803.7	1790.4
32.5°	1638.0	1671.7	1732.8	1729.2	1722.2
35°	1550.3	1571.6	1643.3	1652.2	1646.0
37.5°	1467.0	1486.5	1553.8	1574.2	1568.9
40°	1379.3	1400.6	1453.7	1490.1	1491.8
42.5°	1292.5	1312.9	1356.3	1408.6	1408.6
45°	1200.4	1220.7	1260.6	1318.2	1325.3
47.5°	1110.0	1131.3	1170.3	1227.8	1239.3
50°	1021.4	1040.9	1079.9	1135.7	1153.4
52.5°	929.3	950.6	988.6	1040.0	1065.7
55°	840.7	854.9	896.5	946.1	973.6
57.5°	748.6	761.9	808.8	851.3	879.7
60°	660.0	676.8	713.1	756.5	789.3
62.5°	574.9	592.7	623.7	661.8	699.0
65°	492.6	505.8	536.0	574.1	606.8
67.5°	412.8	424.3	454.5	481.0	515.6
70°	332.2	347.3	369.4	395.1	417.3
72.5°	267.5	273.7	292.3	310.9	334.0
75°	197.6	208.2	223.2	233.9	247.2
77.5°	141.7	147.9	156.8	165.7	178.1
80°	94.8	97.4	105.4	107.2	116.9
82.5°	57.6	59.4	61.1	62.0	65.6
85°	31.0	31.0	31.0	29.2	29.2
87.5°	17.7	17.7	15.1	12.4	8.9
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)