

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: P555479

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-87-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: P555479
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-82-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

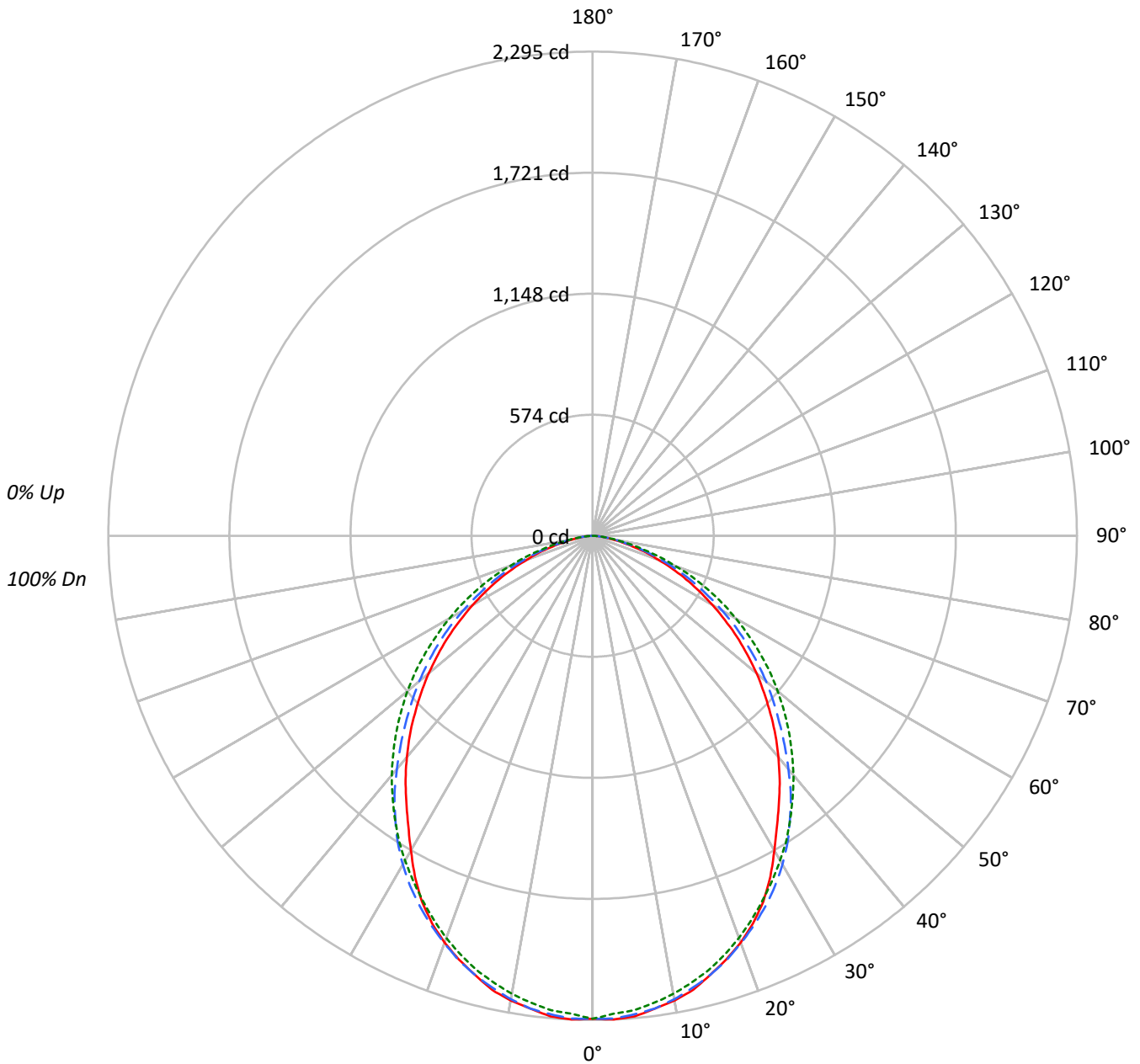
Lumens per Lamp: N/A
Luminaire Lumens: 5293.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (Ain): 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°	12320	12320	12320
5°	12352	12300	12196
10°	12221	12188	12049
15°	12004	12004	11867
20°	11750	11766	11615
25°	11364	11504	11321
30°	10701	11182	11045
35°	10111	10718	10735
40°	9620	10139	10404
45°	9070	9525	10013
50°	8490	8976	9587
55°	7831	8351	9069
60°	7053	7620	8434
65°	6226	6775	7671
70°	5190	5770	6518
75°	4078	4608	5103
80°	2916	3242	3598
85°	1902	1902	1791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	4.1
10°-20°	605.5	11.4
20°-30°	884.8	16.7
30°-40°	1004.3	19.0
40°-50°	969.5	18.3
50°-60°	799.8	15.1
60°-70°	532.6	10.1
70°-80°	238.3	4.5
80°-90°	42.6	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°	1705.8	32.2
0°-40°	2710.1	51.2
0°-60°	4479.5	84.6
0°-90°	5293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2289	2289	2289	2289	2289	
5°	2286	2286	2277	2264	2257	216
15°	2154	2160	2154	2145	2130	607
25°	1914	1928	1937	1923	1906	876
35°	1539	1560	1631	1640	1634	964
45°	1192	1212	1251	1309	1316	919
55°	835	849	890	939	966	745
65°	489	502	532	570	602	485
75°	196	207	222	232	245	214
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°	2289.1	2289.1	2289.1	2289.1	2289.1
2.5°	2295.2	2296.1	2290.8	2276.8	2268.0
5°	2286.4	2285.6	2276.8	2264.5	2257.4
7.5°	2260.9	2262.7	2260.1	2242.5	2232.8
10°	2236.3	2237.2	2230.2	2216.1	2204.7
12.5°	2204.7	2203.8	2194.1	2187.1	2168.6
15°	2154.5	2159.8	2154.5	2144.9	2129.9
17.5°	2106.2	2106.2	2109.7	2093.0	2081.5
20°	2051.6	2054.3	2054.3	2041.1	2027.9
22.5°	1988.3	1996.2	1998.9	1984.8	1969.0
25°	1913.6	1928.5	1937.3	1923.3	1906.5
27.5°	1823.0	1845.9	1872.2	1861.7	1843.2
30°	1721.9	1755.3	1799.3	1790.5	1777.3
32.5°	1626.0	1659.4	1720.1	1716.6	1709.6
35°	1539.0	1560.1	1631.3	1640.1	1633.9
37.5°	1456.3	1475.6	1542.5	1562.7	1557.4
40°	1369.2	1390.3	1443.1	1479.2	1480.9
42.5°	1283.0	1303.3	1346.4	1398.3	1398.3
45°	1191.6	1211.8	1251.4	1308.6	1315.6
47.5°	1101.9	1123.0	1161.7	1218.9	1230.3
50°	1014.0	1033.3	1072.0	1127.4	1145.0
52.5°	922.5	943.6	981.4	1032.4	1057.9
55°	834.6	848.6	890.0	939.2	966.5
57.5°	743.1	756.3	802.9	845.1	873.2
60°	655.2	671.9	707.9	751.0	783.5
62.5°	570.7	588.3	619.1	656.9	693.8
65°	488.9	502.1	532.0	569.9	602.4
67.5°	409.8	421.2	451.1	477.5	511.8
70°	329.8	344.7	366.7	392.2	414.2
72.5°	265.6	271.7	290.2	308.7	331.5
75°	196.1	206.7	221.6	232.2	245.4
77.5°	140.7	146.9	155.7	164.4	176.8
80°	94.1	96.7	104.6	106.4	116.1
82.5°	57.2	58.9	60.7	61.6	65.1
85°	30.8	30.8	30.8	29.0	29.0
87.5°	17.6	17.6	14.9	12.3	8.8
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)