

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: P558042

Luminaire Tested: **FUSL-12-4-LD4-3LO-35-UNV-82-94-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: P558042
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-LD4-3LO-35-UNV-82-94-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

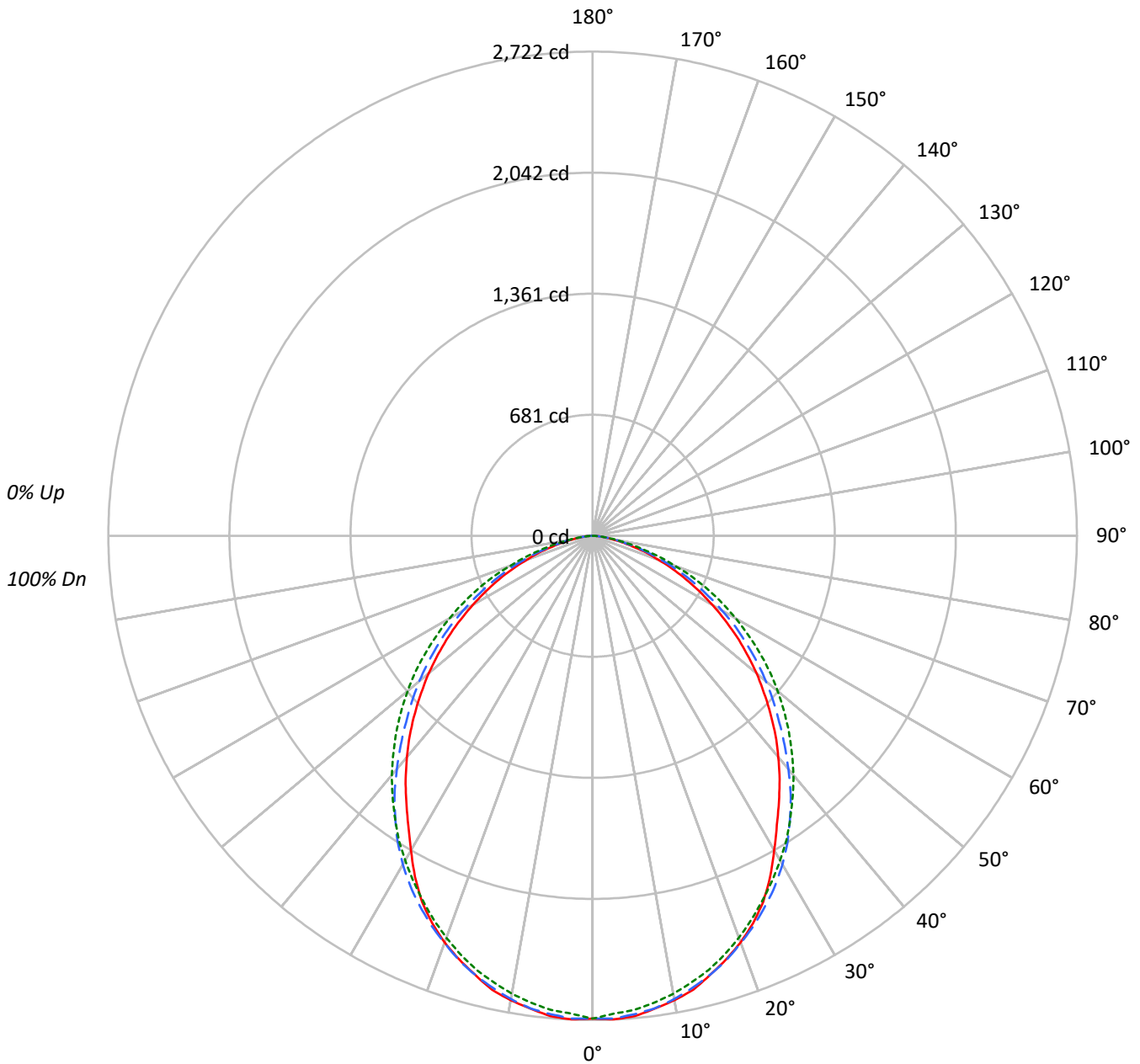
Lumens per Lamp: N/A
Luminaire Lumens: 6276.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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					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	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°	7304	7304	7304
5°	7323	7292	7230
10°	7245	7226	7143
15°	7117	7117	7036
20°	6966	6975	6886
25°	6737	6820	6712
30°	6344	6629	6548
35°	5995	6354	6365
40°	5703	6011	6168
45°	5377	5647	5936
50°	5033	5321	5683
55°	4642	4951	5377
60°	4181	4518	5000
65°	3692	4017	4548
70°	3076	3421	3864
75°	2417	2732	3025
80°	1729	1923	2132
85°	1127	1127	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	4.1
10°-20°	717.9	11.4
20°-30°	1049.1	16.7
30°-40°	1190.9	19.0
40°-50°	1149.6	18.3
50°-60°	948.3	15.1
60°-70°	631.5	10.1
70°-80°	282.6	4.5
80°-90°	50.6	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°	2022.6	32.2
0°-40°	3213.4	51.2
0°-60°	5311.3	84.6
0°-90°	6276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2714	2714	2714	2714	2714	
5°	2711	2710	2700	2685	2677	257
15°	2555	2561	2555	2543	2526	720
25°	2269	2287	2297	2280	2261	1039
35°	1825	1850	1934	1945	1937	1143
45°	1413	1437	1484	1552	1560	1090
55°	990	1006	1055	1114	1146	883
65°	580	595	631	676	714	575
75°	232	245	263	275	291	254
85°	36	36	36	34	34	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2714.2	2714.2	2714.2	2714.2	2714.2
2.5°	2721.5	2722.5	2716.3	2699.6	2689.2
5°	2711.1	2710.0	2699.6	2685.0	2676.7
7.5°	2680.8	2682.9	2679.8	2658.9	2647.5
10°	2651.6	2652.7	2644.3	2627.7	2614.1
12.5°	2614.1	2613.1	2601.6	2593.3	2571.4
15°	2554.7	2560.9	2554.7	2543.2	2525.5
17.5°	2497.3	2497.3	2501.5	2481.7	2468.1
20°	2432.7	2435.8	2435.8	2420.2	2404.5
22.5°	2357.6	2367.0	2370.1	2353.4	2334.7
25°	2269.0	2286.7	2297.1	2280.4	2260.6
27.5°	2161.6	2188.7	2220.0	2207.4	2185.5
30°	2041.7	2081.3	2133.4	2123.0	2107.3
32.5°	1928.0	1967.6	2039.6	2035.4	2027.1
35°	1824.8	1849.8	1934.3	1944.7	1937.4
37.5°	1726.7	1749.7	1828.9	1852.9	1846.7
40°	1623.5	1648.5	1711.1	1753.9	1755.9
42.5°	1521.3	1545.3	1596.4	1657.9	1657.9
45°	1412.9	1436.9	1483.8	1551.6	1559.9
47.5°	1306.5	1331.6	1377.4	1445.2	1458.8
50°	1202.3	1225.2	1271.1	1336.8	1357.6
52.5°	1093.8	1118.8	1163.7	1224.2	1254.4
55°	989.5	1006.2	1055.2	1113.6	1146.0
57.5°	881.1	896.7	952.0	1002.1	1035.4
60°	776.8	796.6	839.4	890.5	929.1
62.5°	676.7	697.6	734.1	778.9	822.7
65°	579.8	595.4	630.8	675.7	714.3
67.5°	485.9	499.5	534.9	566.2	606.9
70°	391.0	408.7	434.8	465.1	491.1
72.5°	314.9	322.2	344.1	366.0	393.1
75°	232.5	245.0	262.8	275.3	290.9
77.5°	166.8	174.1	184.6	195.0	209.6
80°	111.6	114.7	124.1	126.2	137.6
82.5°	67.8	69.9	71.9	73.0	77.2
85°	36.5	36.5	36.5	34.4	34.4
87.5°	20.9	20.9	17.7	14.6	10.4
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)