

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: P557562

Luminaire Tested: **FUSL-12-4-LD4-2STD-40-UNV-80-94-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: P557562
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-LD4-2STD-40-UNV-80-94-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

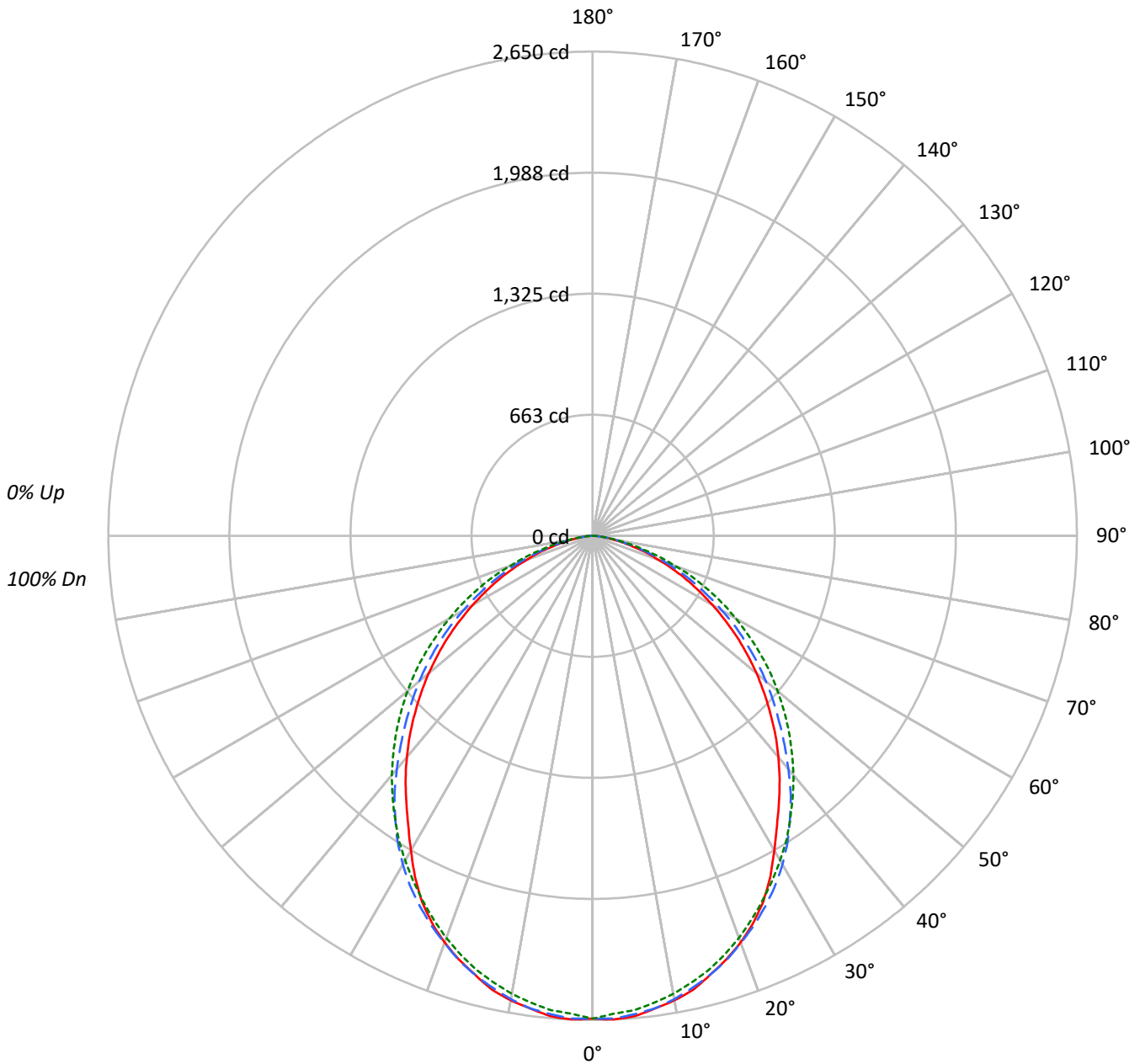
Lumens per Lamp: N/A
Luminaire Lumens: 6111.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	7112	7112	7112
5°	7131	7101	7040
10°	7055	7036	6955
15°	6930	6930	6851
20°	6783	6792	6705
25°	6560	6641	6536
30°	6177	6455	6376
35°	5837	6187	6197
40°	5553	5853	6006
45°	5235	5498	5780
50°	4901	5182	5534
55°	4520	4821	5235
60°	4071	4399	4869
65°	3594	3911	4429
70°	2995	3331	3762
75°	2354	2661	2946
80°	1683	1872	2077
85°	1096	1096	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	4.1
10°-20°	699.0	11.4
20°-30°	1021.5	16.7
30°-40°	1159.6	19.0
40°-50°	1119.4	18.3
50°-60°	923.4	15.1
60°-70°	614.9	10.1
70°-80°	275.2	4.5
80°-90°	49.2	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°	1969.4	32.2
0°-40°	3129.0	51.2
0°-60°	5171.7	84.6
0°-90°	6111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2643	2643	2643	2643	2643	
5°	2640	2639	2629	2614	2606	250
15°	2488	2494	2488	2476	2459	701
25°	2209	2227	2237	2220	2201	1012
35°	1777	1801	1883	1894	1886	1113
45°	1376	1399	1445	1511	1519	1061
55°	964	980	1028	1084	1116	860
65°	564	580	614	658	696	560
75°	226	239	256	268	283	248
85°	36	36	36	34	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2642.8	2642.8	2642.8	2642.8	2642.8
2.5°	2650.0	2651.0	2644.9	2628.6	2618.5
5°	2639.8	2638.8	2628.6	2614.4	2606.3
7.5°	2610.4	2612.4	2609.3	2589.0	2577.9
10°	2581.9	2582.9	2574.8	2558.6	2545.4
12.5°	2545.4	2544.4	2533.2	2525.1	2503.8
15°	2487.5	2493.6	2487.5	2476.3	2459.1
17.5°	2431.7	2431.7	2435.7	2416.4	2403.2
20°	2368.7	2371.8	2371.8	2356.5	2341.3
22.5°	2295.6	2304.8	2307.8	2291.6	2273.3
25°	2209.3	2226.6	2236.7	2220.5	2201.2
27.5°	2104.7	2131.1	2161.6	2149.4	2128.1
30°	1988.0	2026.6	2077.3	2067.2	2051.9
32.5°	1877.3	1915.9	1985.9	1981.9	1973.8
35°	1776.8	1801.2	1883.4	1893.6	1886.4
37.5°	1681.4	1703.7	1780.9	1804.2	1798.1
40°	1580.8	1605.2	1666.1	1707.7	1709.8
42.5°	1481.3	1504.7	1554.4	1614.3	1614.3
45°	1375.7	1399.1	1444.8	1510.8	1518.9
47.5°	1272.2	1296.5	1341.2	1407.2	1420.4
50°	1170.7	1193.0	1237.7	1301.6	1321.9
52.5°	1065.1	1089.4	1133.1	1192.0	1221.4
55°	963.5	979.8	1027.5	1084.4	1115.8
57.5°	857.9	873.2	927.0	975.7	1008.2
60°	756.4	775.7	817.3	867.1	904.6
62.5°	658.9	679.2	714.8	758.4	801.1
65°	564.5	579.7	614.3	657.9	695.5
67.5°	473.1	486.3	520.9	551.3	590.9
70°	380.7	398.0	423.4	452.8	478.2
72.5°	306.6	313.7	335.1	356.4	382.8
75°	226.4	238.6	255.9	268.0	283.3
77.5°	162.4	169.6	179.7	189.9	204.1
80°	108.6	111.7	120.8	122.9	134.0
82.5°	66.0	68.0	70.1	71.1	75.1
85°	35.5	35.5	35.5	33.5	33.5
87.5°	20.3	20.3	17.3	14.2	10.2
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)