

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: P555571

Luminaire Tested: **FUSL-12-2-LD4-3HI-50-UNV-80-85-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: P555571
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-50-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

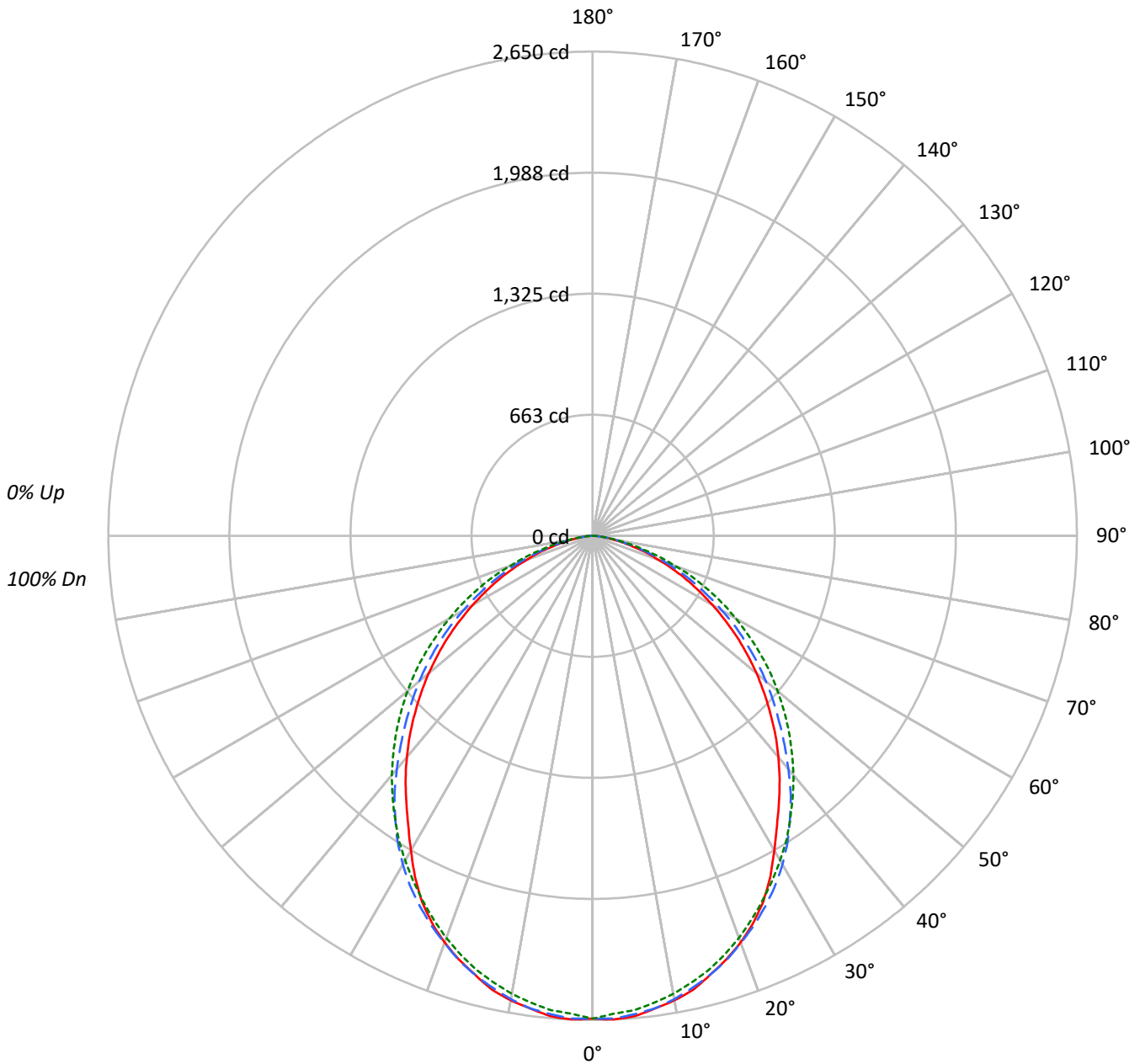
Lumens per Lamp: N/A
Luminaire Lumens: 6111.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	14223	14223	14223
5°	14262	14201	14081
10°	14110	14071	13911
15°	13860	13860	13702
20°	13566	13584	13409
25°	13120	13282	13071
30°	12355	12909	12752
35°	11674	12374	12394
40°	11106	11705	12012
45°	10471	10997	11561
50°	9802	10363	11068
55°	9041	9641	10470
60°	8142	8797	9737
65°	7189	7823	8857
70°	5991	6663	7525
75°	4708	5321	5891
80°	3366	3744	4153
85°	2192	2192	2069



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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)