

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: P557497

Luminaire Tested: **FUSL-12-4-LD4-2STD-35-UNV-80-88-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: P557497
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-35-UNV-80-88-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

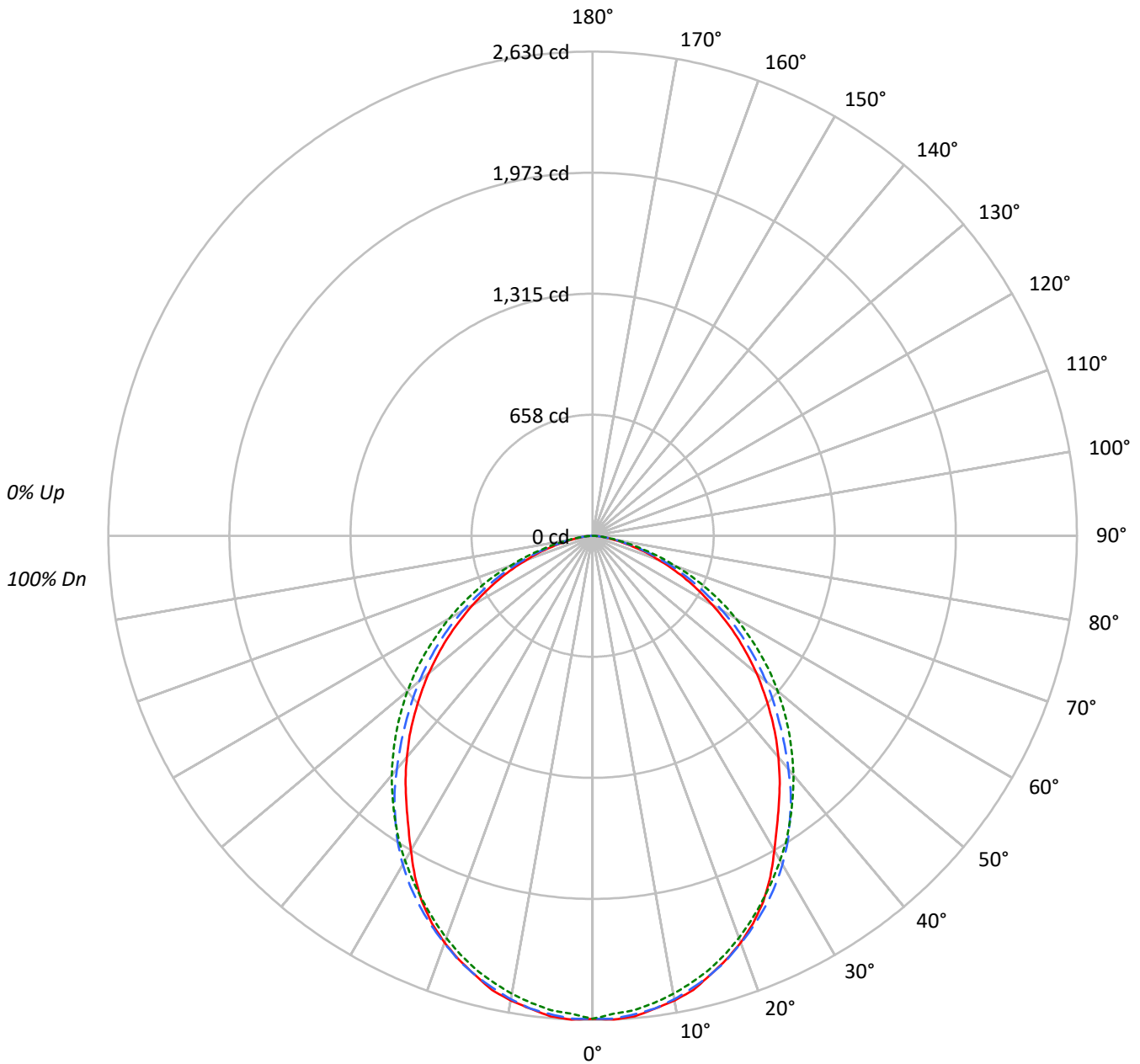
Lumens per Lamp: N/A
Luminaire Lumens: 6066.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (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°	7060	7060	7060
5°	7078	7048	6988
10°	7003	6984	6904
15°	6879	6879	6800
20°	6733	6742	6655
25°	6511	6592	6488
30°	6132	6407	6329
35°	5794	6141	6152
40°	5512	5810	5962
45°	5197	5458	5738
50°	4865	5143	5493
55°	4487	4785	5196
60°	4041	4366	4833
65°	3568	3882	4396
70°	2973	3307	3735
75°	2336	2641	2924
80°	1671	1858	2061
85°	1090	1090	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	4.1
10°-20°	693.9	11.4
20°-30°	1014.0	16.7
30°-40°	1151.0	19.0
40°-50°	1111.1	18.3
50°-60°	916.6	15.1
60°-70°	610.4	10.1
70°-80°	273.1	4.5
80°-90°	48.9	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°	1954.9	32.2
0°-40°	3105.9	51.2
0°-60°	5133.6	84.6
0°-90°	6066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2623	2623	2623	2623	2623	
5°	2620	2619	2609	2595	2587	248
15°	2469	2475	2469	2458	2441	696
25°	2193	2210	2220	2204	2185	1004
35°	1764	1788	1870	1880	1873	1105
45°	1366	1389	1434	1500	1508	1054
55°	956	973	1020	1076	1108	854
65°	560	576	610	653	690	556
75°	225	237	254	266	281	246
85°	35	35	35	33	33	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2623.4	2623.4	2623.4	2623.4	2623.4
2.5°	2630.4	2631.5	2625.4	2609.3	2599.2
5°	2620.4	2619.4	2609.3	2595.2	2587.1
7.5°	2591.1	2593.2	2590.1	2570.0	2558.9
10°	2562.9	2563.9	2555.9	2539.7	2526.6
12.5°	2526.6	2525.6	2514.5	2506.5	2485.3
15°	2469.2	2475.2	2469.2	2458.1	2441.0
17.5°	2413.8	2413.8	2417.8	2398.6	2385.5
20°	2351.3	2354.3	2354.3	2339.2	2324.1
22.5°	2278.7	2287.8	2290.8	2274.7	2256.5
25°	2193.0	2210.2	2220.3	2204.1	2185.0
27.5°	2089.2	2115.4	2145.7	2133.6	2112.4
30°	1973.3	2011.6	2062.0	2051.9	2036.8
32.5°	1863.5	1901.8	1971.3	1967.3	1959.2
35°	1763.7	1787.9	1869.5	1879.6	1872.6
37.5°	1669.0	1691.1	1767.7	1790.9	1784.9
40°	1569.2	1593.4	1653.9	1695.2	1697.2
42.5°	1470.4	1493.6	1543.0	1602.5	1602.5
45°	1365.6	1388.8	1434.1	1499.7	1507.7
47.5°	1262.8	1287.0	1331.3	1396.9	1410.0
50°	1162.0	1184.2	1228.5	1292.0	1312.2
52.5°	1057.2	1081.4	1124.7	1183.2	1212.4
55°	956.4	972.6	1019.9	1076.4	1107.6
57.5°	851.6	866.7	920.2	968.5	1000.8
60°	750.8	770.0	811.3	860.7	898.0
62.5°	654.1	674.2	709.5	752.9	795.2
65°	560.4	575.5	609.7	653.1	690.4
67.5°	469.7	482.8	517.0	547.3	586.6
70°	377.9	395.1	420.3	449.5	474.7
72.5°	304.4	311.4	332.6	353.7	380.0
75°	224.7	236.8	254.0	266.1	281.2
77.5°	161.3	168.3	178.4	188.5	202.6
80°	107.8	110.9	119.9	121.9	133.0
82.5°	65.5	67.5	69.5	70.5	74.6
85°	35.3	35.3	35.3	33.3	33.3
87.5°	20.2	20.2	17.1	14.1	10.1
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)