

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: P557564

Luminaire Tested: **FUSL-12-4-LD4-2STD-40-UNV-80-96-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: P557564
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-80-96-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

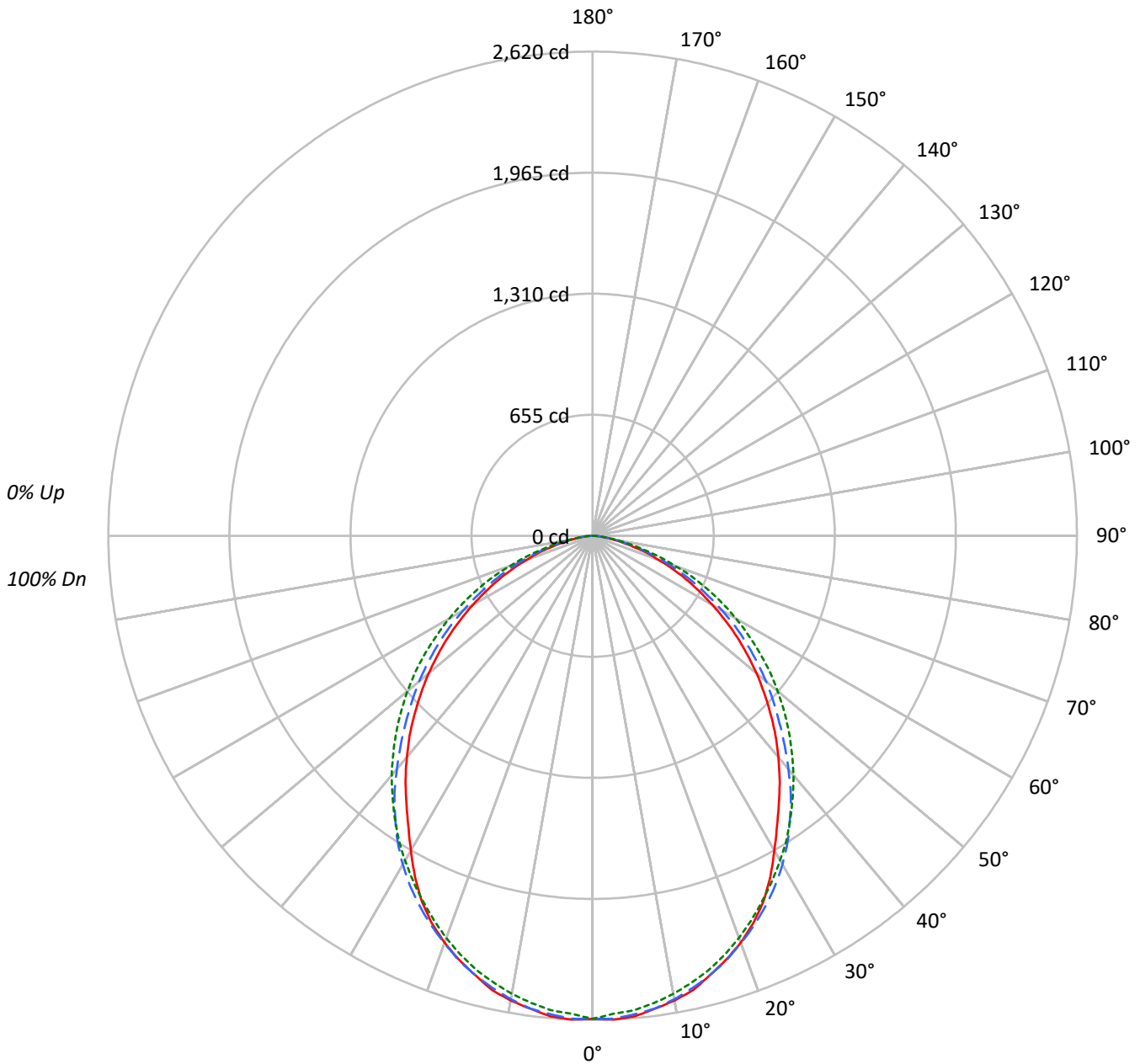
Lumens per Lamp: N/A
Luminaire Lumens: 6043.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7033	7033	7033
5°	7051	7022	6962
10°	6977	6957	6878
15°	6853	6853	6774
20°	6708	6716	6630
25°	6487	6567	6463
30°	6109	6383	6305
35°	5772	6118	6128
40°	5491	5788	5939
45°	5177	5437	5716
50°	4846	5124	5472
55°	4470	4767	5177
60°	4026	4350	4815
65°	3554	3868	4379
70°	2962	3294	3721
75°	2328	2630	2912
80°	1664	1852	2053
85°	1084	1084	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	4.1
10°-20°	691.3	11.4
20°-30°	1010.2	16.7
30°-40°	1146.6	19.0
40°-50°	1106.9	18.3
50°-60°	913.1	15.1
60°-70°	608.1	10.1
70°-80°	272.1	4.5
80°-90°	48.7	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°	1947.5	32.2
0°-40°	3094.1	51.2
0°-60°	5114.1	84.6
0°-90°	6043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2613	2613	2613	2613	2613	
5°	2610	2609	2599	2585	2577	247
15°	2460	2466	2460	2449	2432	693
25°	2185	2202	2212	2196	2177	1001
35°	1757	1781	1862	1872	1866	1101
45°	1360	1384	1429	1494	1502	1050
55°	953	969	1016	1072	1103	850
65°	558	573	607	651	688	554
75°	224	236	253	265	280	245
85°	35	35	35	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2613.4	2613.4	2613.4	2613.4	2613.4
2.5°	2620.5	2621.5	2615.4	2599.4	2589.3
5°	2610.4	2609.4	2599.4	2585.3	2577.3
7.5°	2581.3	2583.3	2580.3	2560.2	2549.2
10°	2553.2	2554.2	2546.2	2530.1	2517.1
12.5°	2517.1	2516.1	2505.0	2497.0	2475.9
15°	2459.8	2465.9	2459.8	2448.8	2431.7
17.5°	2404.6	2404.6	2408.6	2389.5	2376.5
20°	2342.4	2345.4	2345.4	2330.3	2315.3
22.5°	2270.1	2279.1	2282.1	2266.1	2248.0
25°	2184.7	2201.8	2211.8	2195.8	2176.7
27.5°	2081.3	2107.4	2137.5	2125.5	2104.4
30°	1965.9	2004.0	2054.2	2044.2	2029.1
32.5°	1856.4	1894.6	1963.8	1959.8	1951.8
35°	1757.0	1781.1	1862.4	1872.5	1865.5
37.5°	1662.6	1684.7	1761.0	1784.1	1778.1
40°	1563.2	1587.3	1647.6	1688.7	1690.8
42.5°	1464.9	1487.9	1537.1	1596.4	1596.4
45°	1360.4	1383.5	1428.7	1494.0	1502.0
47.5°	1258.0	1282.1	1326.3	1391.6	1404.6
50°	1157.6	1179.7	1223.9	1287.1	1307.2
52.5°	1053.2	1077.3	1120.5	1178.7	1207.8
55°	952.8	968.9	1016.1	1072.3	1103.4
57.5°	848.4	863.4	916.7	964.9	997.0
60°	748.0	767.1	808.2	857.4	894.6
62.5°	651.6	671.7	706.8	750.0	792.2
65°	558.2	573.3	607.4	650.6	687.7
67.5°	467.9	480.9	515.1	545.2	584.3
70°	376.5	393.6	418.7	447.8	472.9
72.5°	303.2	310.2	331.3	352.4	378.5
75°	223.9	235.9	253.0	265.1	280.1
77.5°	160.6	167.7	177.7	187.8	201.8
80°	107.4	110.4	119.5	121.5	132.5
82.5°	65.3	67.3	69.3	70.3	74.3
85°	35.1	35.1	35.1	33.1	33.1
87.5°	20.1	20.1	17.1	14.1	10.0
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)