

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: P557551

Luminaire Tested: **FUSL-12-4-LD4-2STD-35-UNV-93-97-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: P557551
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-93-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

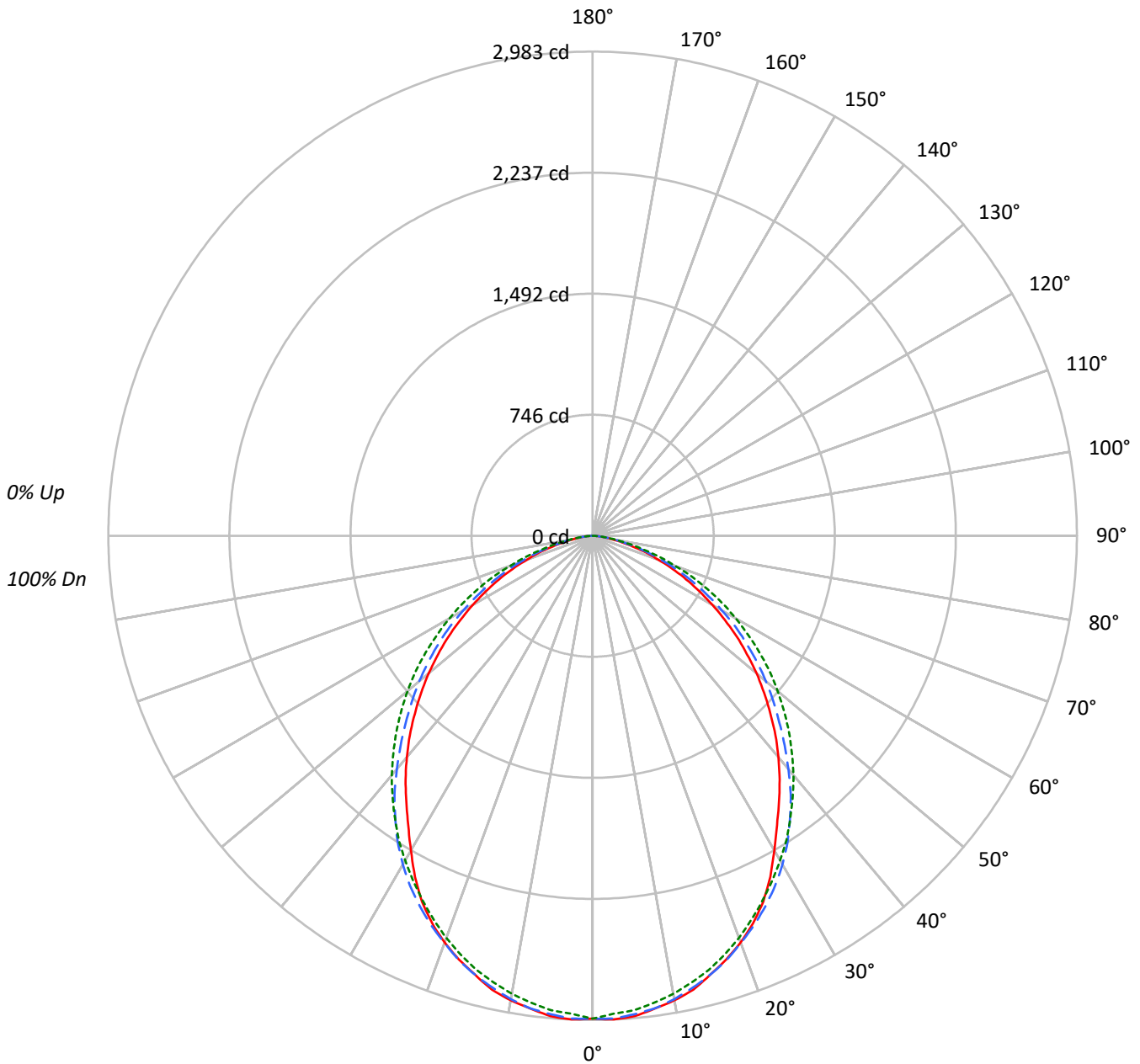
Lumens per Lamp: N/A
Luminaire Lumens: 6879.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	8006	8006	8006
5°	8027	7993	7925
10°	7942	7920	7829
15°	7801	7801	7712
20°	7636	7645	7547
25°	7384	7476	7357
30°	6953	7266	7177
35°	6570	6965	6976
40°	6251	6588	6761
45°	5893	6189	6507
50°	5517	5833	6230
55°	5088	5426	5893
60°	4583	4951	5480
65°	4046	4403	4985
70°	3372	3750	4235
75°	2650	2994	3316
80°	1895	2108	2338
85°	1235	1235	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	4.1
10°-20°	786.9	11.4
20°-30°	1149.9	16.7
30°-40°	1305.3	19.0
40°-50°	1260.0	18.3
50°-60°	1039.4	15.1
60°-70°	692.2	10.1
70°-80°	309.8	4.5
80°-90°	55.4	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°	2216.9	32.2
0°-40°	3522.2	51.2
0°-60°	5821.6	84.6
0°-90°	6879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2975	2975	2975	2975	2975	
5°	2972	2970	2959	2943	2934	281
15°	2800	2807	2800	2788	2768	789
25°	2487	2506	2518	2500	2478	1139
35°	2000	2028	2120	2132	2124	1253
45°	1549	1575	1626	1701	1710	1195
55°	1085	1103	1157	1221	1256	968
65°	636	653	692	741	783	630
75°	255	269	288	302	319	279
85°	40	40	40	38	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2975.0	2975.0	2975.0	2975.0	2975.0
2.5°	2983.0	2984.1	2977.3	2959.0	2947.6
5°	2971.6	2970.4	2959.0	2943.0	2933.8
7.5°	2938.4	2940.7	2937.3	2914.4	2901.8
10°	2906.4	2907.6	2898.4	2880.1	2865.3
12.5°	2865.3	2864.1	2851.6	2842.4	2818.4
15°	2800.1	2807.0	2800.1	2787.6	2768.1
17.5°	2737.3	2737.3	2741.8	2720.1	2705.3
20°	2666.4	2669.8	2669.8	2652.7	2635.5
22.5°	2584.1	2594.4	2597.8	2579.5	2559.0
25°	2487.0	2506.4	2517.8	2499.5	2477.8
27.5°	2369.2	2399.0	2433.3	2419.5	2395.5
30°	2237.8	2281.2	2338.4	2327.0	2309.8
32.5°	2113.2	2156.7	2235.5	2231.0	2221.8
35°	2000.1	2027.5	2120.1	2131.5	2123.5
37.5°	1892.7	1917.8	2004.7	2030.9	2024.1
40°	1779.5	1806.9	1875.5	1922.4	1924.7
42.5°	1667.5	1693.8	1749.8	1817.2	1817.2
45°	1548.6	1574.9	1626.4	1700.6	1709.8
47.5°	1432.1	1459.5	1509.8	1584.1	1598.9
50°	1317.8	1342.9	1393.2	1465.2	1488.1
52.5°	1198.9	1226.3	1275.5	1341.8	1374.9
55°	1084.6	1102.9	1156.6	1220.6	1256.1
57.5°	965.8	982.9	1043.5	1098.3	1134.9
60°	851.5	873.2	920.0	976.0	1018.3
62.5°	741.7	764.6	804.6	853.8	901.8
65°	635.5	652.6	691.5	740.6	782.9
67.5°	532.6	547.5	586.3	620.6	665.2
70°	428.6	448.0	476.6	509.7	538.3
72.5°	345.2	353.2	377.2	401.2	430.9
75°	254.9	268.6	288.0	301.7	318.9
77.5°	182.9	190.9	202.3	213.7	229.7
80°	122.3	125.7	136.0	138.3	150.9
82.5°	74.3	76.6	78.9	80.0	84.6
85°	40.0	40.0	40.0	37.7	37.7
87.5°	22.9	22.9	19.4	16.0	11.4
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)