

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: P555565

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-UNV-93-96-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: P555565
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-40-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

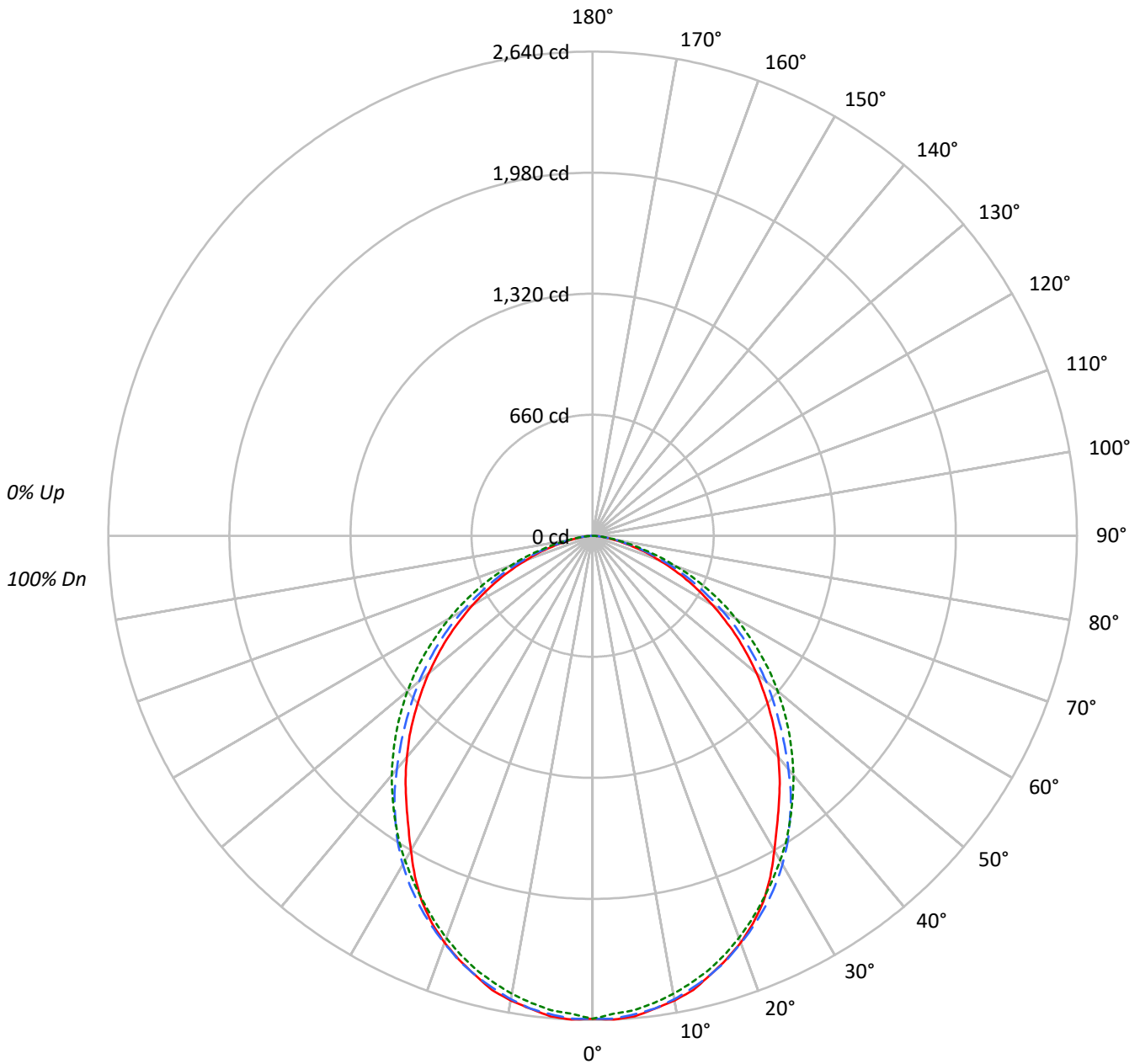
Lumens per Lamp: N/A
Luminaire Lumens: 6089.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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°	14172	14172	14172
5°	14210	14150	14030
10°	14059	14021	13860
15°	13810	13810	13652
20°	13518	13535	13361
25°	13073	13235	13025
30°	12310	12863	12706
35°	11632	12330	12350
40°	11066	11663	11969
45°	10433	10957	11519
50°	9766	10325	11029
55°	9009	9606	10432
60°	8113	8766	9703
65°	7163	7795	8825
70°	5970	6639	7498
75°	4691	5300	5870
80°	3353	3732	4138
85°	2186	2186	2062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	4.1
10°-20°	696.5	11.4
20°-30°	1017.9	16.7
30°-40°	1155.4	19.0
40°-50°	1115.3	18.3
50°-60°	920.1	15.1
60°-70°	612.7	10.1
70°-80°	274.2	4.5
80°-90°	49.1	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°	1962.3	32.2
0°-40°	3117.7	51.2
0°-60°	5153.1	84.6
0°-90°	6089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2633	2633	2633	2633	2633	
5°	2630	2629	2619	2605	2597	249
15°	2479	2485	2479	2467	2450	699
25°	2201	2219	2229	2212	2193	1008
35°	1770	1795	1877	1887	1880	1109
45°	1371	1394	1440	1505	1513	1058
55°	960	976	1024	1080	1112	857
65°	562	578	612	656	693	558
75°	226	238	255	267	282	247
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°	2633.3	2633.3	2633.3	2633.3	2633.3
2.5°	2640.4	2641.4	2635.4	2619.2	2609.1
5°	2630.3	2629.3	2619.2	2605.0	2596.9
7.5°	2601.0	2603.0	2600.0	2579.7	2568.6
10°	2572.6	2573.6	2565.6	2549.4	2536.2
12.5°	2536.2	2535.2	2524.1	2516.0	2494.7
15°	2478.6	2484.6	2478.6	2467.4	2450.2
17.5°	2422.9	2422.9	2427.0	2407.7	2394.6
20°	2360.2	2363.2	2363.2	2348.0	2332.9
22.5°	2287.3	2296.5	2299.5	2283.3	2265.1
25°	2201.4	2218.6	2228.7	2212.5	2193.3
27.5°	2097.2	2123.5	2153.8	2141.7	2120.4
30°	1980.8	2019.3	2069.8	2059.7	2044.6
32.5°	1870.5	1909.0	1978.8	1974.7	1966.7
35°	1770.4	1794.7	1876.6	1886.7	1879.7
37.5°	1675.3	1697.6	1774.4	1797.7	1791.6
40°	1575.1	1599.4	1660.1	1701.6	1703.6
42.5°	1476.0	1499.3	1548.8	1608.5	1608.5
45°	1370.8	1394.1	1439.6	1505.3	1513.4
47.5°	1267.6	1291.9	1336.4	1402.2	1415.3
50°	1166.4	1188.7	1233.2	1296.9	1317.2
52.5°	1061.2	1085.5	1129.0	1187.7	1217.0
55°	960.1	976.2	1023.8	1080.4	1111.8
57.5°	854.8	870.0	923.6	972.2	1004.6
60°	753.7	772.9	814.4	864.0	901.4
62.5°	656.6	676.8	712.2	755.7	798.2
65°	562.5	577.7	612.1	655.6	693.0
67.5°	471.4	484.6	519.0	549.3	588.8
70°	379.4	396.6	421.9	451.2	476.5
72.5°	305.5	312.6	333.8	355.1	381.4
75°	225.6	237.7	254.9	267.1	282.3
77.5°	161.9	168.9	179.1	189.2	203.3
80°	108.2	111.3	120.4	122.4	133.5
82.5°	65.8	67.8	69.8	70.8	74.9
85°	35.4	35.4	35.4	33.4	33.4
87.5°	20.2	20.2	17.2	14.2	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)