

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: P555507

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-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: P555507
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-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

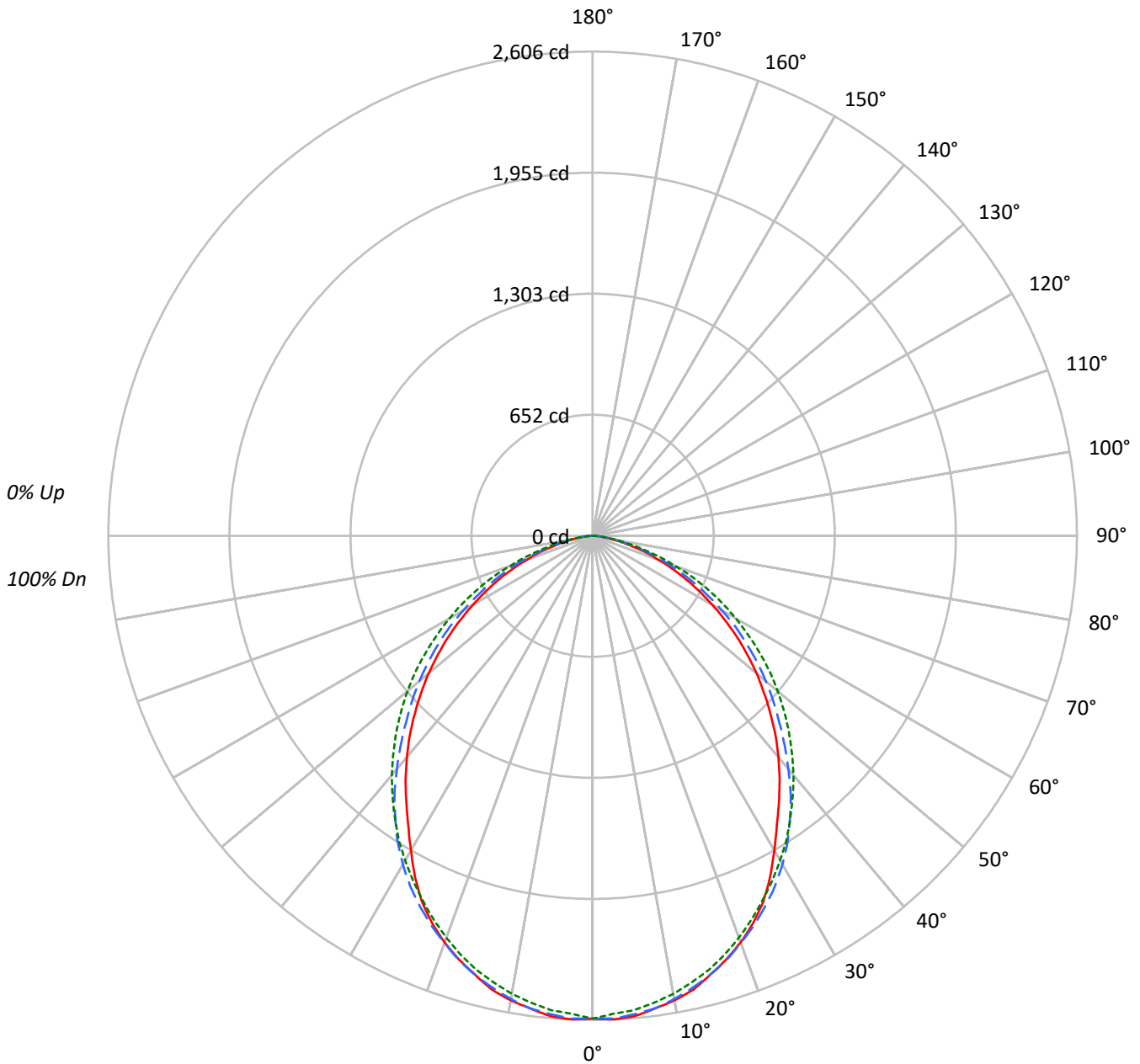
Lumens per Lamp: N/A
Luminaire Lumens: 6009.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	13986	13986	13986
5°	14023	13964	13846
10°	13874	13836	13678
15°	13629	13629	13473
20°	13340	13357	13186
25°	12900	13061	12853
30°	12148	12694	12539
35°	11479	12168	12188
40°	10921	11510	11812
45°	10296	10813	11368
50°	9638	10190	10884
55°	8890	9480	10295
60°	8006	8651	9575
65°	7069	7692	8709
70°	5891	6551	7399
75°	4629	5232	5791
80°	3310	3682	4085
85°	2155	2155	2032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	4.1
10°-20°	687.4	11.4
20°-30°	1004.5	16.7
30°-40°	1140.2	19.0
40°-50°	1100.7	18.3
50°-60°	908.0	15.1
60°-70°	604.6	10.1
70°-80°	270.6	4.5
80°-90°	48.4	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°	1936.5	32.2
0°-40°	3076.7	51.2
0°-60°	5085.4	84.6
0°-90°	6009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2599	2599	2599	2599	2599	
5°	2596	2595	2585	2571	2563	246
15°	2446	2452	2446	2435	2418	690
25°	2172	2189	2199	2183	2164	995
35°	1747	1771	1852	1862	1855	1095
45°	1353	1376	1421	1486	1494	1044
55°	947	963	1010	1066	1097	846
65°	555	570	604	647	684	550
75°	223	235	252	264	278	243
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°	2598.7	2598.7	2598.7	2598.7	2598.7
2.5°	2605.7	2606.7	2600.7	2584.8	2574.8
5°	2595.7	2594.7	2584.8	2570.8	2562.8
7.5°	2566.8	2568.8	2565.8	2545.8	2534.8
10°	2538.8	2539.8	2531.8	2515.9	2502.9
12.5°	2502.9	2501.9	2490.9	2482.9	2462.0
15°	2446.0	2452.0	2446.0	2435.0	2418.0
17.5°	2391.1	2391.1	2395.1	2376.1	2363.1
20°	2329.2	2332.2	2332.2	2317.2	2302.2
22.5°	2257.3	2266.3	2269.3	2253.3	2235.3
25°	2172.4	2189.4	2199.4	2183.4	2164.4
27.5°	2069.6	2095.6	2125.5	2113.5	2092.6
30°	1954.8	1992.7	2042.6	2032.7	2017.7
32.5°	1846.0	1883.9	1952.8	1948.8	1940.8
35°	1747.1	1771.1	1852.0	1861.9	1855.0
37.5°	1653.3	1675.3	1751.1	1774.1	1768.1
40°	1554.5	1578.4	1638.3	1679.2	1681.2
42.5°	1456.6	1479.6	1528.5	1587.4	1587.4
45°	1352.8	1375.7	1420.7	1485.6	1493.6
47.5°	1250.9	1274.9	1318.8	1383.7	1396.7
50°	1151.1	1173.1	1217.0	1279.9	1299.9
52.5°	1047.3	1071.2	1114.2	1172.1	1201.0
55°	947.4	963.4	1010.3	1066.3	1097.2
57.5°	843.6	858.6	911.5	959.4	991.4
60°	743.8	762.7	803.7	852.6	889.5
62.5°	647.9	667.9	702.8	745.8	787.7
65°	555.1	570.1	604.0	646.9	683.9
67.5°	465.2	478.2	512.2	542.1	581.0
70°	374.4	391.4	416.3	445.3	470.2
72.5°	301.5	308.5	329.5	350.4	376.4
75°	222.6	234.6	251.6	263.6	278.5
77.5°	159.7	166.7	176.7	186.7	200.7
80°	106.8	109.8	118.8	120.8	131.8
82.5°	64.9	66.9	68.9	69.9	73.9
85°	34.9	34.9	34.9	32.9	32.9
87.5°	20.0	20.0	17.0	14.0	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)