

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: P554827

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-81-94-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: P554827
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-LD4-2HI-50-UNV-81-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

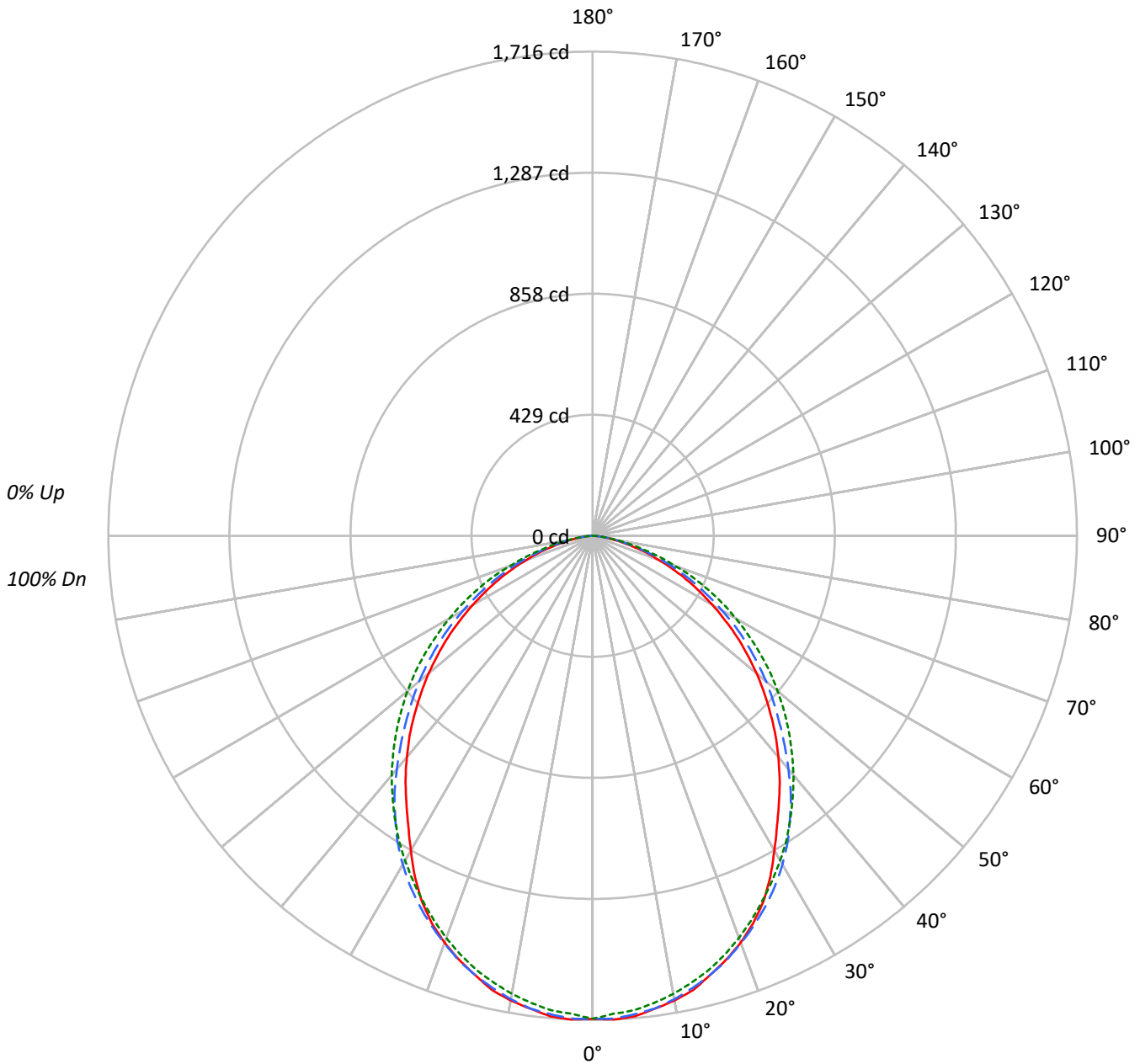
Lumens per Lamp: N/A
Luminaire Lumens: 3958.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	9212	9212	9212
5°	9237	9198	9120
10°	9139	9114	9010
15°	8977	8977	8874
20°	8787	8798	8685
25°	8497	8603	8466
30°	8002	8361	8259
35°	7561	8014	8027
40°	7194	7581	7780
45°	6782	7123	7488
50°	6348	6712	7169
55°	5856	6244	6781
60°	5273	5698	6307
65°	4656	5066	5737
70°	3880	4315	4873
75°	3048	3446	3816
80°	2182	2427	2690
85°	1420	1420	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	4.1
10°-20°	452.8	11.4
20°-30°	661.6	16.7
30°-40°	751.0	19.0
40°-50°	725.0	18.3
50°-60°	598.1	15.1
60°-70°	398.3	10.1
70°-80°	178.2	4.5
80°-90°	31.9	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°	1275.6	32.2
0°-40°	2026.6	51.2
0°-60°	3349.6	84.6
0°-90°	3958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1712	1712	1712	1712	1712	
5°	1710	1709	1702	1693	1688	162
15°	1611	1615	1611	1604	1593	454
25°	1431	1442	1449	1438	1426	655
35°	1151	1167	1220	1226	1222	721
45°	891	906	936	978	984	687
55°	624	635	666	702	723	557
65°	366	376	398	426	450	363
75°	147	154	166	174	184	160
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.7	1711.7	1711.7	1711.7	1711.7
2.5°	1716.3	1717.0	1713.0	1702.5	1696.0
5°	1709.8	1709.1	1702.5	1693.3	1688.1
7.5°	1690.7	1692.0	1690.0	1676.9	1669.6
10°	1672.3	1672.9	1667.7	1657.2	1648.6
12.5°	1648.6	1647.9	1640.7	1635.5	1621.6
15°	1611.1	1615.1	1611.1	1603.9	1592.7
17.5°	1575.0	1575.0	1577.6	1565.1	1556.5
20°	1534.2	1536.2	1536.2	1526.3	1516.4
22.5°	1486.8	1492.8	1494.7	1484.2	1472.4
25°	1430.9	1442.1	1448.7	1438.2	1425.7
27.5°	1363.2	1380.3	1400.0	1392.1	1378.3
30°	1287.6	1312.6	1345.4	1338.9	1329.0
32.5°	1215.9	1240.9	1286.3	1283.6	1278.4
35°	1150.8	1166.6	1219.8	1226.4	1221.8
37.5°	1089.0	1103.5	1153.4	1168.6	1164.6
40°	1023.9	1039.7	1079.1	1106.1	1107.4
42.5°	959.4	974.6	1006.8	1045.6	1045.6
45°	891.0	906.2	935.8	978.5	983.8
47.5°	824.0	839.8	868.7	911.4	920.0
50°	758.2	772.7	801.6	843.0	856.2
52.5°	689.8	705.6	733.9	772.0	791.1
55°	624.1	634.6	665.5	702.3	722.7
57.5°	555.7	565.5	600.4	632.0	653.0
60°	489.9	502.4	529.4	561.6	585.9
62.5°	426.8	439.9	463.0	491.2	518.8
65°	365.6	375.5	397.8	426.1	450.5
67.5°	306.4	315.0	337.3	357.1	382.7
70°	246.6	257.8	274.2	293.3	309.7
72.5°	198.6	203.2	217.0	230.8	247.9
75°	146.6	154.5	165.7	173.6	183.5
77.5°	105.2	109.8	116.4	123.0	132.2
80°	70.4	72.3	78.3	79.6	86.8
82.5°	42.7	44.1	45.4	46.0	48.7
85°	23.0	23.0	23.0	21.7	21.7
87.5°	13.2	13.2	11.2	9.2	6.6
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)