

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: P554725

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-86-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: P554725
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-35-UNV-93-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

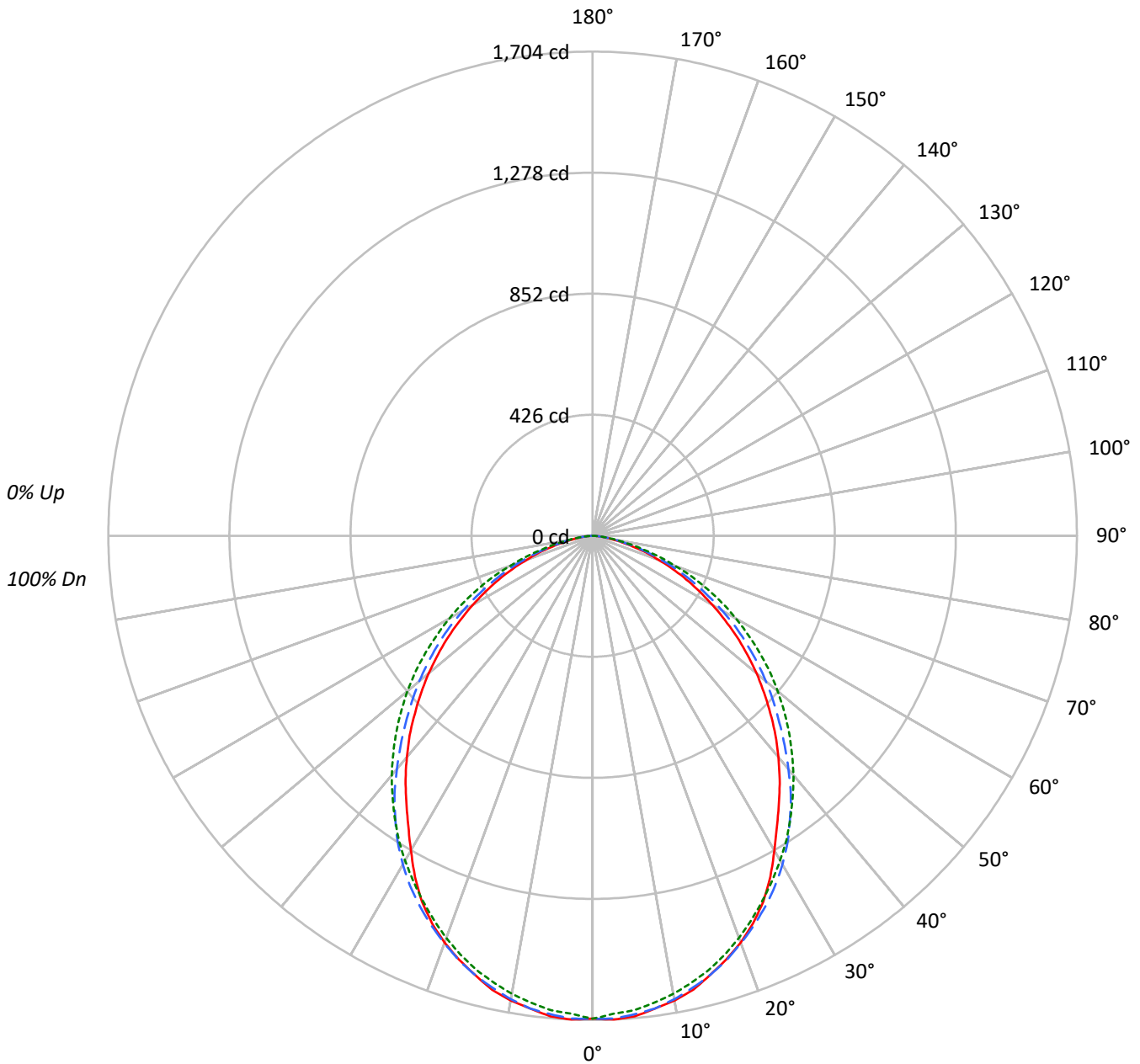
Lumens per Lamp: N/A
Luminaire Lumens: 3930.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	9147	9147	9147
5°	9172	9133	9055
10°	9074	9049	8946
15°	8913	8913	8811
20°	8724	8736	8624
25°	8437	8542	8406
30°	7945	8302	8201
35°	7508	7958	7971
40°	7142	7528	7725
45°	6734	7072	7435
50°	6303	6664	7118
55°	5814	6200	6733
60°	5236	5658	6262
65°	4623	5030	5696
70°	3854	4285	4839
75°	3028	3421	3789
80°	2166	2408	2672
85°	1414	1414	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	4.1
10°-20°	449.6	11.4
20°-30°	656.9	16.7
30°-40°	745.7	19.0
40°-50°	719.9	18.3
50°-60°	593.8	15.1
60°-70°	395.5	10.1
70°-80°	177.0	4.5
80°-90°	31.7	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°	1266.5	32.2
0°-40°	2012.2	51.2
0°-60°	3325.9	84.6
0°-90°	3930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1698	1697	1690	1681	1676	161
15°	1600	1604	1600	1592	1581	451
25°	1421	1432	1438	1428	1416	651
35°	1143	1158	1211	1218	1213	716
45°	885	900	929	972	977	683
55°	620	630	661	697	718	553
65°	363	373	395	423	447	360
75°	146	153	164	172	182	159
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°	1699.6	1699.6	1699.6	1699.6	1699.6
2.5°	1704.2	1704.8	1700.9	1690.5	1684.0
5°	1697.7	1697.0	1690.5	1681.3	1676.1
7.5°	1678.7	1680.0	1678.1	1665.0	1657.8
10°	1660.4	1661.1	1655.9	1645.4	1636.9
12.5°	1636.9	1636.3	1629.1	1623.9	1610.2
15°	1599.7	1603.6	1599.7	1592.5	1581.4
17.5°	1563.8	1563.8	1566.4	1554.0	1545.5
20°	1523.3	1525.3	1525.3	1515.5	1505.7
22.5°	1476.3	1482.2	1484.2	1473.7	1462.0
25°	1420.8	1431.9	1438.4	1428.0	1415.6
27.5°	1353.6	1370.5	1390.1	1382.3	1368.6
30°	1278.5	1303.3	1335.9	1329.4	1319.6
32.5°	1207.3	1232.1	1277.2	1274.6	1269.3
35°	1142.7	1158.3	1211.2	1217.7	1213.2
37.5°	1081.3	1095.6	1145.3	1160.3	1156.4
40°	1016.6	1032.3	1071.5	1098.3	1099.6
42.5°	952.7	967.7	999.7	1038.2	1038.2
45°	884.7	899.8	929.1	971.6	976.8
47.5°	818.1	833.8	862.5	905.0	913.5
50°	752.8	767.2	795.9	837.1	850.1
52.5°	684.9	700.6	728.7	766.6	785.5
55°	619.6	630.1	660.8	697.3	717.6
57.5°	551.7	561.5	596.1	627.5	648.4
60°	486.4	498.9	525.6	557.6	581.8
62.5°	423.8	436.8	459.7	487.8	515.2
65°	363.0	372.8	395.0	423.1	447.3
67.5°	304.3	312.8	335.0	354.6	380.0
70°	244.9	256.0	272.3	291.2	307.5
72.5°	197.2	201.8	215.5	229.2	246.2
75°	145.6	153.4	164.5	172.4	182.2
77.5°	104.5	109.0	115.6	122.1	131.2
80°	69.9	71.8	77.7	79.0	86.2
82.5°	42.4	43.7	45.1	45.7	48.3
85°	22.9	22.9	22.9	21.5	21.5
87.5°	13.1	13.1	11.1	9.1	6.5
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)