

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: P555968

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-81-84-EDD-90**

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: P555968
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-LD4-3STD-35-UNV-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

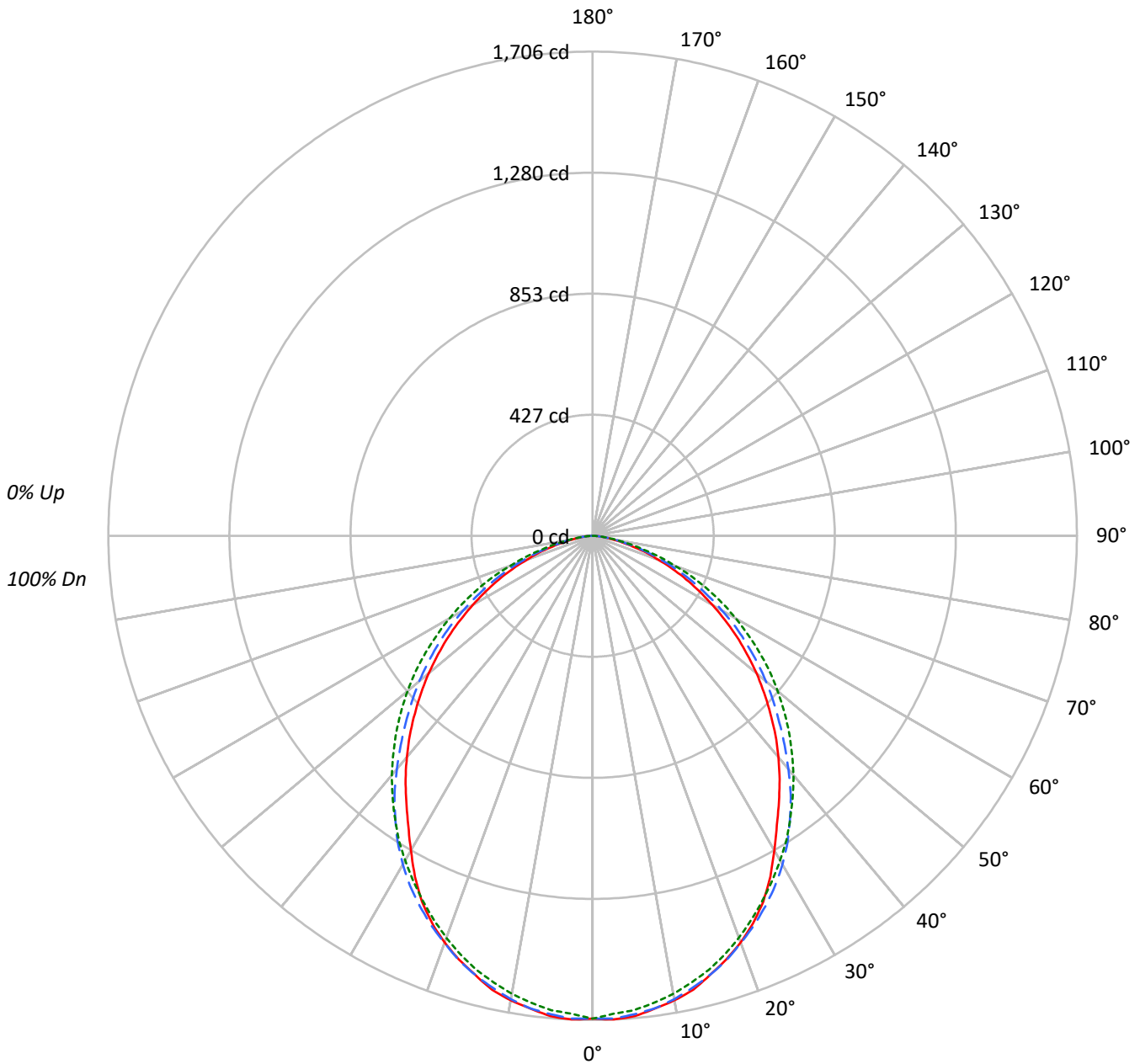
Lumens per Lamp: N/A
Luminaire Lumens: 3934.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	9157	9157	9157
5°	9181	9142	9064
10°	9083	9059	8955
15°	8923	8923	8820
20°	8734	8745	8632
25°	8446	8551	8415
30°	7953	8311	8209
35°	7515	7966	7979
40°	7150	7536	7733
45°	6741	7079	7442
50°	6310	6671	7125
55°	5820	6207	6740
60°	5241	5664	6269
65°	4628	5035	5701
70°	3857	4290	4845
75°	3032	3425	3793
80°	2166	2411	2675
85°	1414	1414	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	4.1
10°-20°	450.0	11.4
20°-30°	657.6	16.7
30°-40°	746.5	19.0
40°-50°	720.6	18.3
50°-60°	594.4	15.1
60°-70°	395.8	10.1
70°-80°	177.2	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°	1267.8	32.2
0°-40°	2014.3	51.2
0°-60°	3329.3	84.6
0°-90°	3934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1699	1699	1692	1683	1678	161
15°	1601	1605	1601	1594	1583	451
25°	1422	1433	1440	1430	1417	651
35°	1144	1160	1212	1219	1214	717
45°	886	901	930	973	978	683
55°	620	631	662	698	718	554
65°	363	373	395	424	448	360
75°	146	154	165	173	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°	1701.4	1701.4	1701.4	1701.4	1701.4
2.5°	1705.9	1706.6	1702.7	1692.2	1685.7
5°	1699.4	1698.7	1692.2	1683.1	1677.8
7.5°	1680.4	1681.7	1679.8	1666.7	1659.5
10°	1662.1	1662.8	1657.6	1647.1	1638.6
12.5°	1638.6	1638.0	1630.8	1625.5	1611.8
15°	1601.4	1605.3	1601.4	1594.2	1583.0
17.5°	1565.4	1565.4	1568.0	1555.6	1547.1
20°	1524.9	1526.8	1526.8	1517.0	1507.2
22.5°	1477.8	1483.7	1485.7	1475.2	1463.4
25°	1422.3	1433.4	1439.9	1429.5	1417.0
27.5°	1354.9	1371.9	1391.5	1383.7	1370.0
30°	1279.8	1304.6	1337.3	1330.8	1321.0
32.5°	1208.5	1233.4	1278.5	1275.9	1270.6
35°	1143.8	1159.5	1212.5	1219.0	1214.4
37.5°	1082.4	1096.8	1146.4	1161.5	1157.5
40°	1017.7	1033.4	1072.6	1099.4	1100.7
42.5°	953.6	968.7	1000.7	1039.2	1039.2
45°	885.6	900.7	930.1	972.6	977.8
47.5°	819.0	834.7	863.4	905.9	914.4
50°	753.6	768.0	796.8	837.9	851.0
52.5°	685.6	701.3	729.4	767.3	786.3
55°	620.3	630.7	661.5	698.1	718.3
57.5°	552.3	562.1	596.7	628.1	649.0
60°	486.9	499.4	526.2	558.2	582.4
62.5°	424.2	437.3	460.1	488.2	515.7
65°	363.4	373.2	395.4	423.5	447.7
67.5°	304.6	313.1	335.3	354.9	380.4
70°	245.1	256.2	272.6	291.5	307.9
72.5°	197.4	202.0	215.7	229.4	246.4
75°	145.8	153.6	164.7	172.6	182.4
77.5°	104.6	109.2	115.7	122.2	131.4
80°	69.9	71.9	77.8	79.1	86.3
82.5°	42.5	43.8	45.1	45.8	48.4
85°	22.9	22.9	22.9	21.6	21.6
87.5°	13.1	13.1	11.1	9.2	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)