

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: P555416

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-82-88-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: P555416
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-30-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

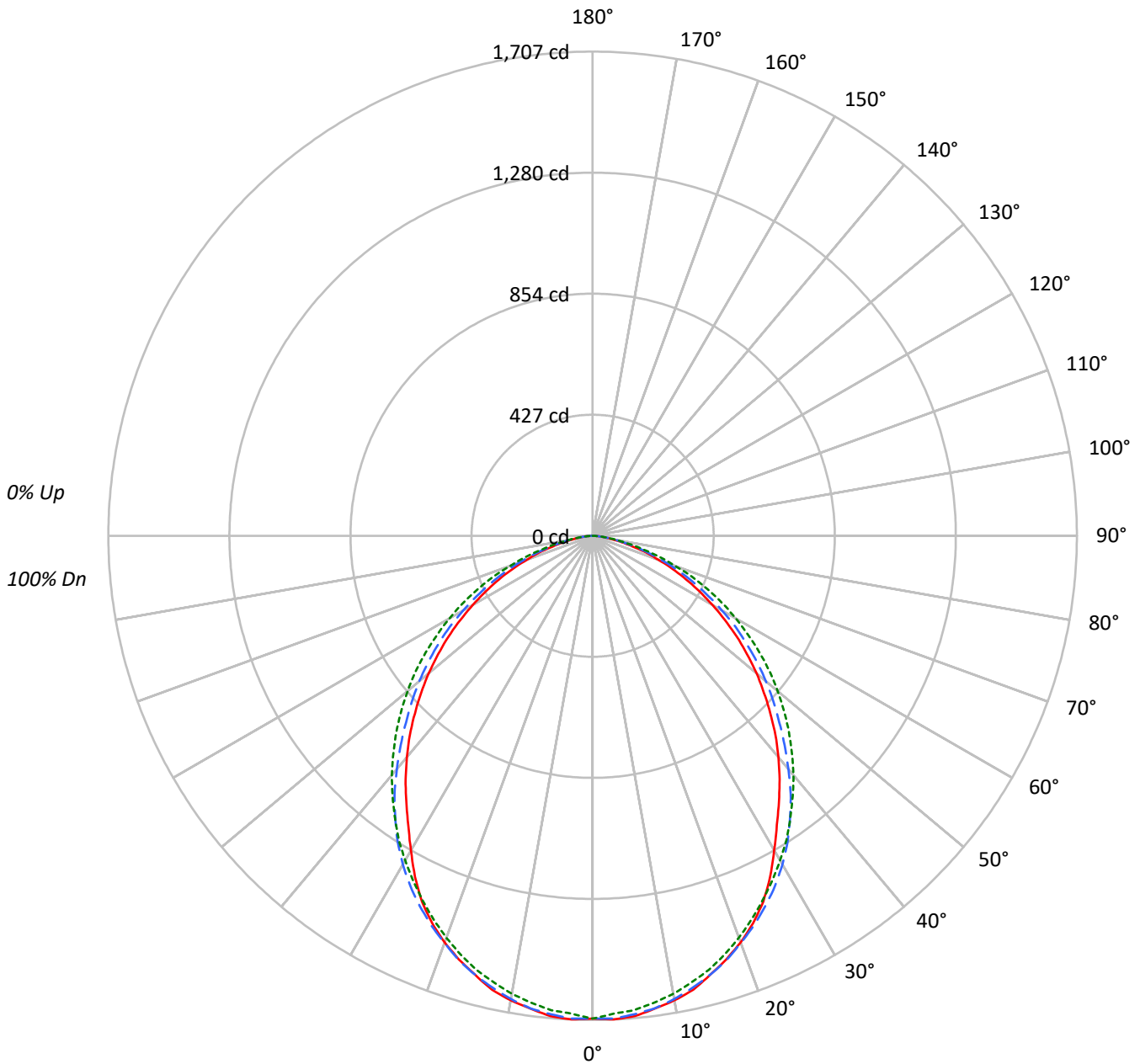
Lumens per Lamp: N/A
Luminaire Lumens: 3936.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9161	9161	9161
5°	9186	9147	9069
10°	9088	9063	8959
15°	8927	8927	8825
20°	8738	8749	8637
25°	8450	8555	8419
30°	7957	8315	8213
35°	7519	7970	7983
40°	7154	7539	7737
45°	6744	7083	7446
50°	6313	6675	7129
55°	5823	6210	6744
60°	5244	5666	6272
65°	4630	5038	5705
70°	3858	4291	4847
75°	3032	3427	3795
80°	2170	2411	2675
85°	1414	1414	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	4.1
10°-20°	450.2	11.4
20°-30°	658.0	16.7
30°-40°	746.8	19.0
40°-50°	721.0	18.3
50°-60°	594.8	15.1
60°-70°	396.1	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°	1268.5	32.2
0°-40°	2015.3	51.2
0°-60°	3331.0	84.6
0°-90°	3936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1700	1700	1693	1684	1679	161
15°	1602	1606	1602	1595	1584	452
25°	1423	1434	1441	1430	1418	652
35°	1144	1160	1213	1220	1215	717
45°	886	901	931	973	978	684
55°	621	631	662	698	719	554
65°	364	373	396	424	448	361
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°	1702.2	1702.2	1702.2	1702.2	1702.2
2.5°	1706.8	1707.4	1703.5	1693.1	1686.5
5°	1700.3	1699.6	1693.1	1683.9	1678.7
7.5°	1681.3	1682.6	1680.6	1667.6	1660.4
10°	1663.0	1663.6	1658.4	1647.9	1639.4
12.5°	1639.4	1638.8	1631.6	1626.4	1612.6
15°	1602.2	1606.1	1602.2	1595.0	1583.9
17.5°	1566.2	1566.2	1568.8	1556.4	1547.9
20°	1525.7	1527.6	1527.6	1517.8	1508.0
22.5°	1478.6	1484.5	1486.4	1476.0	1464.2
25°	1423.0	1434.1	1440.6	1430.2	1417.8
27.5°	1355.6	1372.6	1392.2	1384.4	1370.7
30°	1280.4	1305.3	1338.0	1331.4	1321.6
32.5°	1209.1	1234.0	1279.1	1276.5	1271.3
35°	1144.4	1160.1	1213.1	1219.6	1215.0
37.5°	1082.9	1097.3	1147.0	1162.1	1158.1
40°	1018.2	1033.9	1073.1	1099.9	1101.2
42.5°	954.1	969.1	1001.2	1039.8	1039.8
45°	886.1	901.1	930.6	973.1	978.3
47.5°	819.4	835.1	863.9	906.4	914.9
50°	754.0	768.4	797.2	838.4	851.4
52.5°	686.0	701.7	729.8	767.7	786.7
55°	620.6	631.1	661.8	698.4	718.7
57.5°	552.6	562.4	597.1	628.4	649.4
60°	487.2	499.6	526.4	558.5	582.7
62.5°	424.4	437.5	460.4	488.5	516.0
65°	363.6	373.4	395.6	423.8	448.0
67.5°	304.7	313.2	335.5	355.1	380.6
70°	245.2	256.3	272.7	291.7	308.0
72.5°	197.5	202.1	215.8	229.5	246.5
75°	145.8	153.7	164.8	172.6	182.5
77.5°	104.6	109.2	115.7	122.3	131.4
80°	70.0	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)