

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: P554683

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-94-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: P554683
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-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

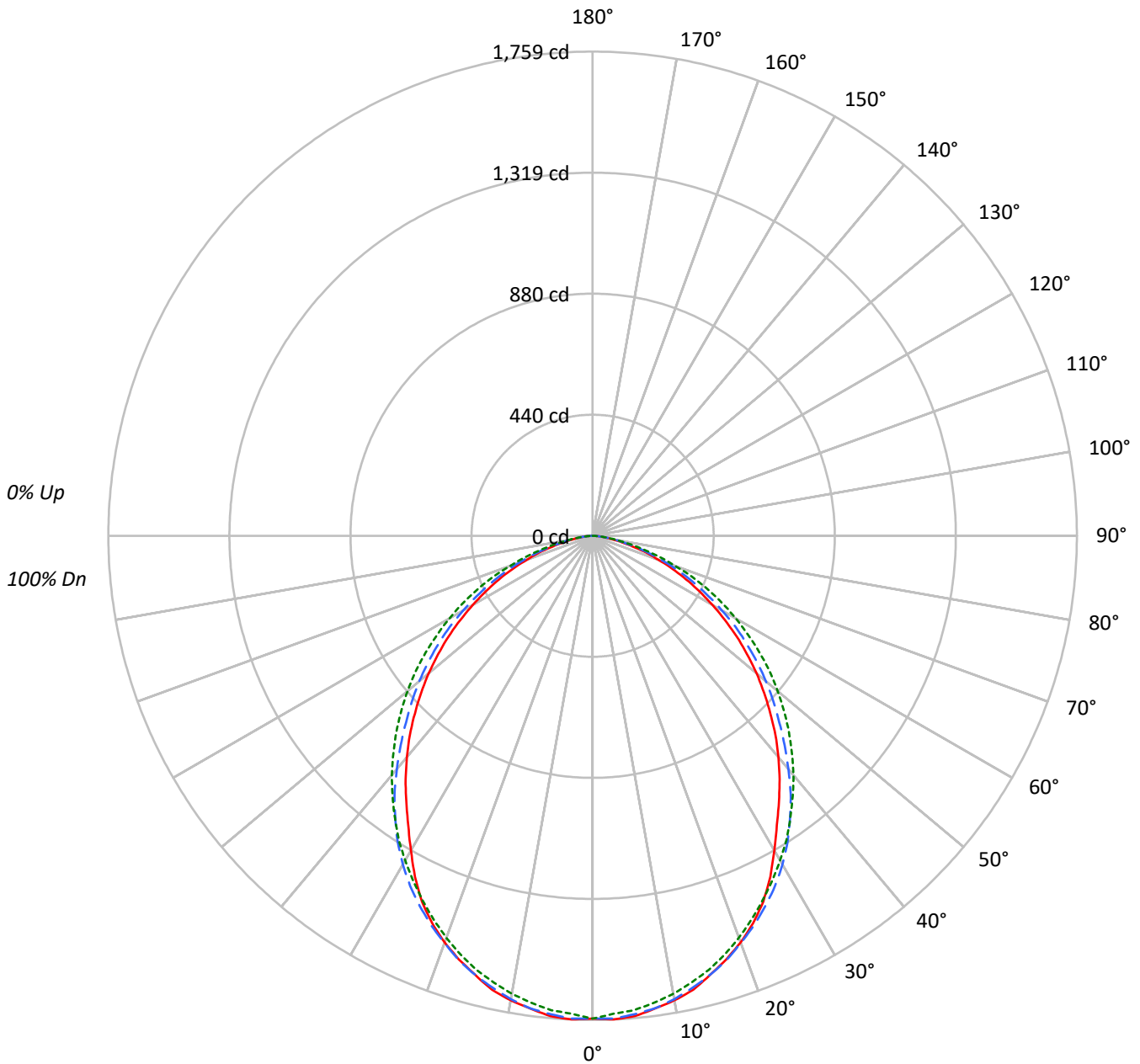
Lumens per Lamp: N/A
Luminaire Lumens: 4056.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9440	9440	9440
5°	9466	9426	9346
10°	9365	9340	9233
15°	9199	9199	9094
20°	9005	9016	8900
25°	8708	8816	8676
30°	8200	8569	8464
35°	7748	8213	8226
40°	7371	7769	7973
45°	6950	7298	7673
50°	6506	6878	7346
55°	6001	6399	6949
60°	5403	5839	6463
65°	4772	5192	5878
70°	3976	4422	4995
75°	3125	3531	3909
80°	2235	2486	2758
85°	1457	1457	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	4.1
10°-20°	464.0	11.4
20°-30°	678.0	16.7
30°-40°	769.6	19.0
40°-50°	742.9	18.3
50°-60°	612.9	15.1
60°-70°	408.1	10.1
70°-80°	182.6	4.5
80°-90°	32.7	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°	1307.1	32.2
0°-40°	2076.8	51.2
0°-60°	3432.6	84.6
0°-90°	4056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1752	1751	1745	1735	1730	166
15°	1651	1655	1651	1644	1632	465
25°	1466	1478	1485	1474	1461	672
35°	1179	1196	1250	1257	1252	739
45°	913	929	959	1003	1008	705
55°	640	650	682	720	741	571
65°	375	385	408	437	462	371
75°	150	158	170	178	188	164
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1754.1	1754.1	1754.1	1754.1	1754.1
2.5°	1758.8	1759.5	1755.5	1744.7	1737.9
5°	1752.1	1751.4	1744.7	1735.2	1729.9
7.5°	1732.6	1733.9	1731.9	1718.4	1711.0
10°	1713.7	1714.4	1709.0	1698.2	1689.4
12.5°	1689.4	1688.7	1681.3	1675.9	1661.8
15°	1651.0	1655.1	1651.0	1643.6	1632.1
17.5°	1613.9	1613.9	1616.6	1603.8	1595.1
20°	1572.2	1574.2	1574.2	1564.1	1554.0
22.5°	1523.6	1529.7	1531.7	1521.0	1508.8
25°	1466.4	1477.8	1484.6	1473.8	1461.0
27.5°	1397.0	1414.5	1434.7	1426.6	1412.5
30°	1319.5	1345.1	1378.8	1372.0	1361.9
32.5°	1246.0	1271.6	1318.1	1315.4	1310.0
35°	1179.3	1195.5	1250.1	1256.8	1252.1
37.5°	1115.9	1130.8	1182.0	1197.5	1193.4
40°	1049.2	1065.4	1105.8	1133.5	1134.8
42.5°	983.2	998.7	1031.7	1071.5	1071.5
45°	913.1	928.6	958.9	1002.7	1008.1
47.5°	844.4	860.5	890.2	934.0	942.8
50°	777.0	791.8	821.5	863.9	877.4
52.5°	706.9	723.1	752.1	791.1	810.7
55°	639.5	650.3	682.0	719.7	740.6
57.5°	569.4	579.5	615.3	647.6	669.2
60°	502.0	514.8	542.5	575.5	600.4
62.5°	437.3	450.8	474.4	503.4	531.7
65°	374.7	384.8	407.7	436.7	461.6
67.5°	314.0	322.8	345.7	365.9	392.2
70°	252.7	264.2	281.0	300.6	317.4
72.5°	203.5	208.2	222.4	236.5	254.1
75°	150.3	158.4	169.8	177.9	188.0
77.5°	107.8	112.5	119.3	126.0	135.5
80°	72.1	74.1	80.2	81.5	89.0
82.5°	43.8	45.2	46.5	47.2	49.9
85°	23.6	23.6	23.6	22.2	22.2
87.5°	13.5	13.5	11.5	9.4	6.7
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)