

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: P554763

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-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: P554763
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

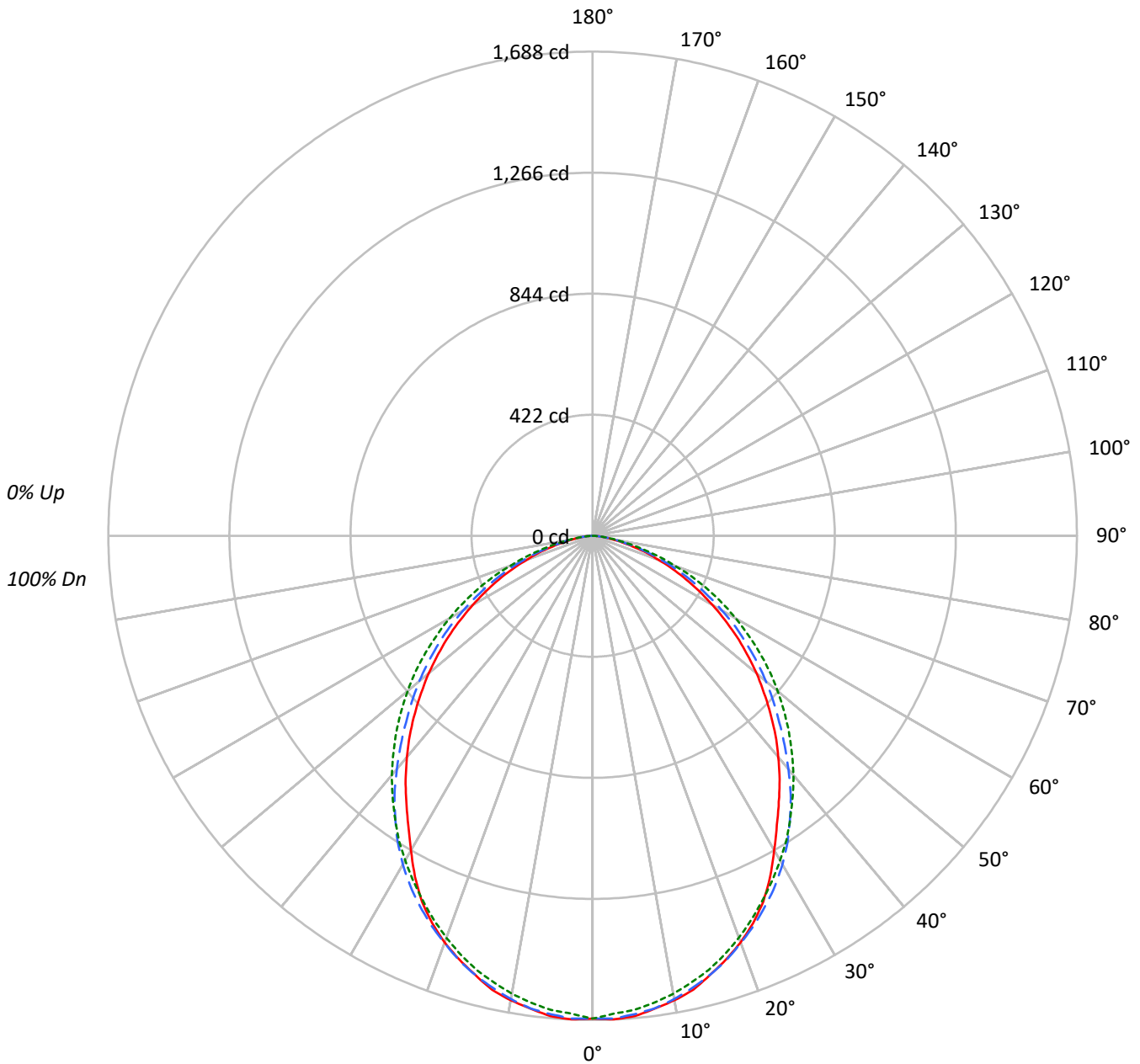
Lumens per Lamp: N/A
Luminaire Lumens: 3892.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9059	9059	9059
5°	9083	9044	8968
10°	8987	8962	8859
15°	8827	8827	8726
20°	8640	8651	8540
25°	8356	8459	8325
30°	7868	8222	8121
35°	7435	7881	7893
40°	7073	7455	7650
45°	6669	7004	7363
50°	6243	6599	7049
55°	5758	6140	6669
60°	5185	5603	6202
65°	4578	4982	5640
70°	3816	4242	4793
75°	2999	3389	3751
80°	2145	2383	2647
85°	1396	1396	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	4.1
10°-20°	445.2	11.4
20°-30°	650.6	16.7
30°-40°	738.5	19.0
40°-50°	712.9	18.3
50°-60°	588.1	15.1
60°-70°	391.6	10.1
70°-80°	175.3	4.5
80°-90°	31.3	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°	1254.3	32.2
0°-40°	1992.8	51.2
0°-60°	3293.8	84.6
0°-90°	3892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1681	1681	1674	1665	1660	159
15°	1584	1588	1584	1577	1566	447
25°	1407	1418	1424	1414	1402	644
35°	1132	1147	1200	1206	1201	709
45°	876	891	920	962	967	676
55°	614	624	654	691	711	548
65°	360	369	391	419	443	356
75°	144	152	163	171	180	158
85°	23	23	23	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1687.7	1688.4	1684.5	1674.1	1667.7
5°	1681.2	1680.6	1674.1	1665.1	1659.9
7.5°	1662.5	1663.8	1661.9	1648.9	1641.8
10°	1644.4	1645.0	1639.9	1629.5	1621.1
12.5°	1621.1	1620.5	1613.4	1608.2	1594.6
15°	1584.3	1588.1	1584.3	1577.1	1566.1
17.5°	1548.7	1548.7	1551.3	1539.0	1530.6
20°	1508.6	1510.5	1510.5	1500.8	1491.1
22.5°	1462.0	1467.9	1469.8	1459.5	1447.8
25°	1407.1	1418.1	1424.5	1414.2	1401.9
27.5°	1340.5	1357.3	1376.7	1368.9	1355.3
30°	1266.1	1290.7	1323.0	1316.5	1306.8
32.5°	1195.6	1220.2	1264.8	1262.2	1257.1
35°	1131.6	1147.1	1199.5	1206.0	1201.4
37.5°	1070.8	1085.1	1134.2	1149.1	1145.2
40°	1006.8	1022.3	1061.1	1087.6	1088.9
42.5°	943.4	958.3	990.0	1028.1	1028.1
45°	876.2	891.1	920.2	962.2	967.4
47.5°	810.2	825.8	854.2	896.2	904.6
50°	745.6	759.8	788.2	829.0	841.9
52.5°	678.3	693.8	721.6	759.1	777.9
55°	613.7	624.0	654.4	690.6	710.7
57.5°	546.4	556.1	590.4	621.4	642.1
60°	481.7	494.0	520.5	552.2	576.2
62.5°	419.7	432.6	455.2	483.0	510.2
65°	359.5	369.2	391.2	419.0	442.9
67.5°	301.3	309.7	331.7	351.1	376.3
70°	242.5	253.5	269.6	288.4	304.6
72.5°	195.3	199.8	213.4	227.0	243.8
75°	144.2	152.0	163.0	170.7	180.4
77.5°	103.5	108.0	114.5	120.9	130.0
80°	69.2	71.1	76.9	78.2	85.4
82.5°	42.0	43.3	44.6	45.3	47.9
85°	22.6	22.6	22.6	21.3	21.3
87.5°	12.9	12.9	11.0	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)