

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: P554723

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-85-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: P554723
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-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

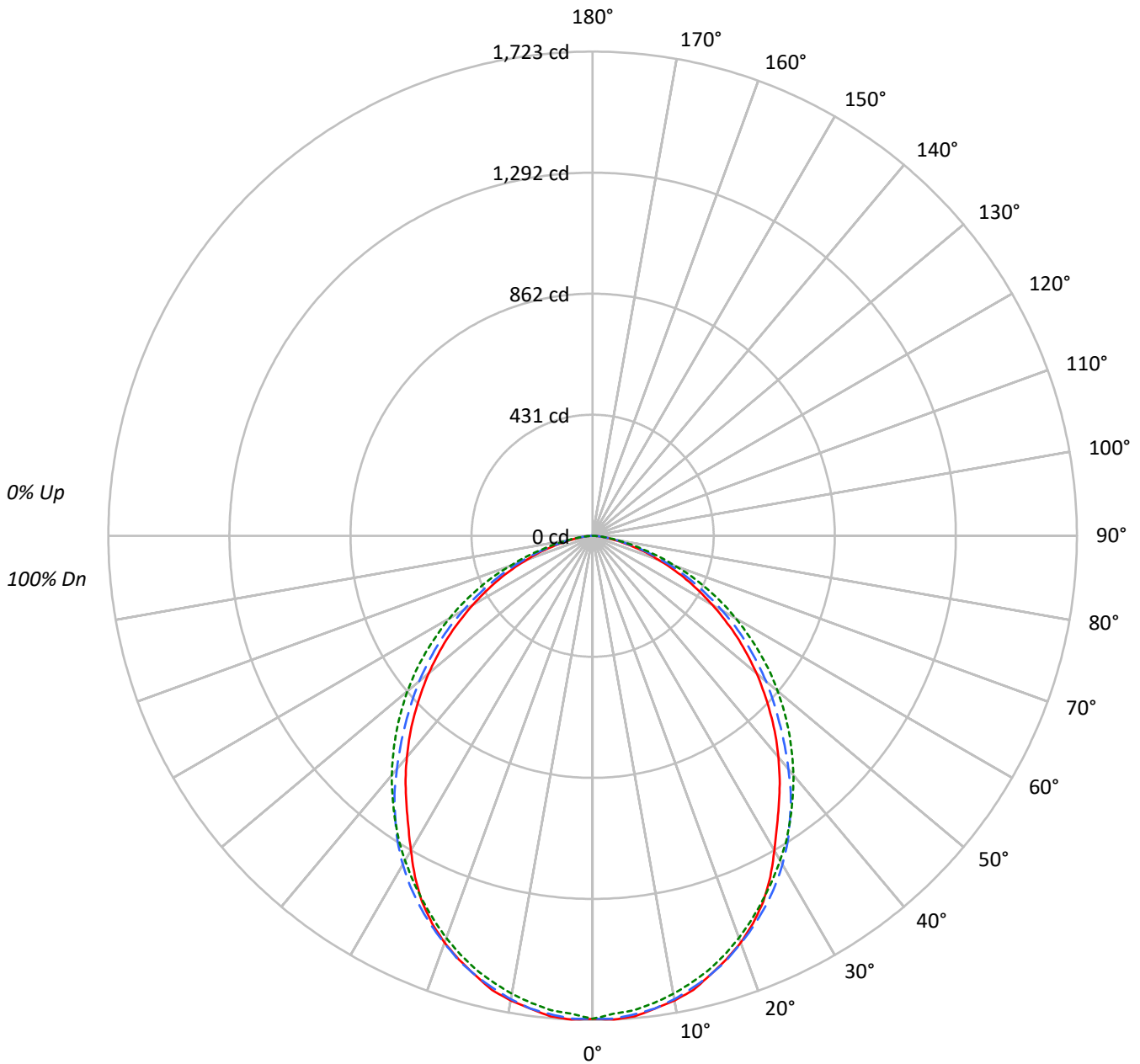
Lumens per Lamp: N/A
Luminaire Lumens: 3974.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9250	9250	9250
5°	9274	9235	9157
10°	9176	9151	9046
15°	9013	9013	8910
20°	8822	8834	8720
25°	8532	8637	8500
30°	8034	8395	8293
35°	7592	8047	8060
40°	7222	7612	7812
45°	6810	7151	7518
50°	6374	6739	7198
55°	5879	6270	6808
60°	5295	5721	6332
65°	4675	5088	5760
70°	3896	4332	4894
75°	3061	3460	3830
80°	2188	2436	2703
85°	1426	1426	1346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	4.1
10°-20°	454.6	11.4
20°-30°	664.3	16.7
30°-40°	754.1	19.0
40°-50°	727.9	18.3
50°-60°	600.5	15.1
60°-70°	399.9	10.1
70°-80°	178.9	4.5
80°-90°	32.0	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°	1280.7	32.2
0°-40°	2034.8	51.2
0°-60°	3363.2	84.6
0°-90°	3974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3974.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1717	1716	1709	1700	1695	162
15°	1618	1622	1618	1610	1599	456
25°	1437	1448	1454	1444	1431	658
35°	1156	1171	1225	1231	1227	724
45°	895	910	940	982	988	690
55°	627	637	668	705	726	559
65°	367	377	400	428	452	364
75°	147	155	166	174	184	161
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°	1718.7	1718.7	1718.7	1718.7	1718.7
2.5°	1723.3	1723.9	1720.0	1709.4	1702.8
5°	1716.7	1716.0	1709.4	1700.2	1694.9
7.5°	1697.5	1698.8	1696.9	1683.7	1676.4
10°	1679.0	1679.7	1674.4	1663.9	1655.3
12.5°	1655.3	1654.6	1647.3	1642.1	1628.2
15°	1617.6	1621.6	1617.6	1610.4	1599.1
17.5°	1581.3	1581.3	1584.0	1571.4	1562.8
20°	1540.4	1542.4	1542.4	1532.5	1522.6
22.5°	1492.8	1498.8	1500.8	1490.2	1478.3
25°	1436.7	1447.9	1454.5	1444.0	1431.4
27.5°	1368.7	1385.9	1405.7	1397.8	1383.9
30°	1292.8	1317.9	1350.9	1344.3	1334.4
32.5°	1220.8	1245.9	1291.5	1288.8	1283.5
35°	1155.5	1171.3	1224.8	1231.4	1226.8
37.5°	1093.4	1107.9	1158.1	1173.3	1169.3
40°	1028.0	1043.9	1083.5	1110.6	1111.9
42.5°	963.3	978.5	1010.9	1049.8	1049.8
45°	894.7	909.8	939.5	982.5	987.7
47.5°	827.3	843.1	872.2	915.1	923.7
50°	761.3	775.8	804.9	846.5	859.7
52.5°	692.6	708.5	736.8	775.1	794.3
55°	626.6	637.1	668.2	705.2	725.6
57.5°	557.9	567.8	602.8	634.5	655.6
60°	491.9	504.4	531.5	563.9	588.3
62.5°	428.5	441.7	464.8	493.2	520.9
65°	367.1	377.0	399.5	427.8	452.3
67.5°	307.7	316.3	338.7	358.5	384.3
70°	247.6	258.8	275.3	294.5	311.0
72.5°	199.4	204.0	217.9	231.8	248.9
75°	147.2	155.2	166.4	174.3	184.2
77.5°	105.6	110.3	116.9	123.5	132.7
80°	70.6	72.6	78.6	79.9	87.2
82.5°	42.9	44.2	45.6	46.2	48.9
85°	23.1	23.1	23.1	21.8	21.8
87.5°	13.2	13.2	11.2	9.2	6.6
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)