

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: P554739

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-85-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: P554739
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-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

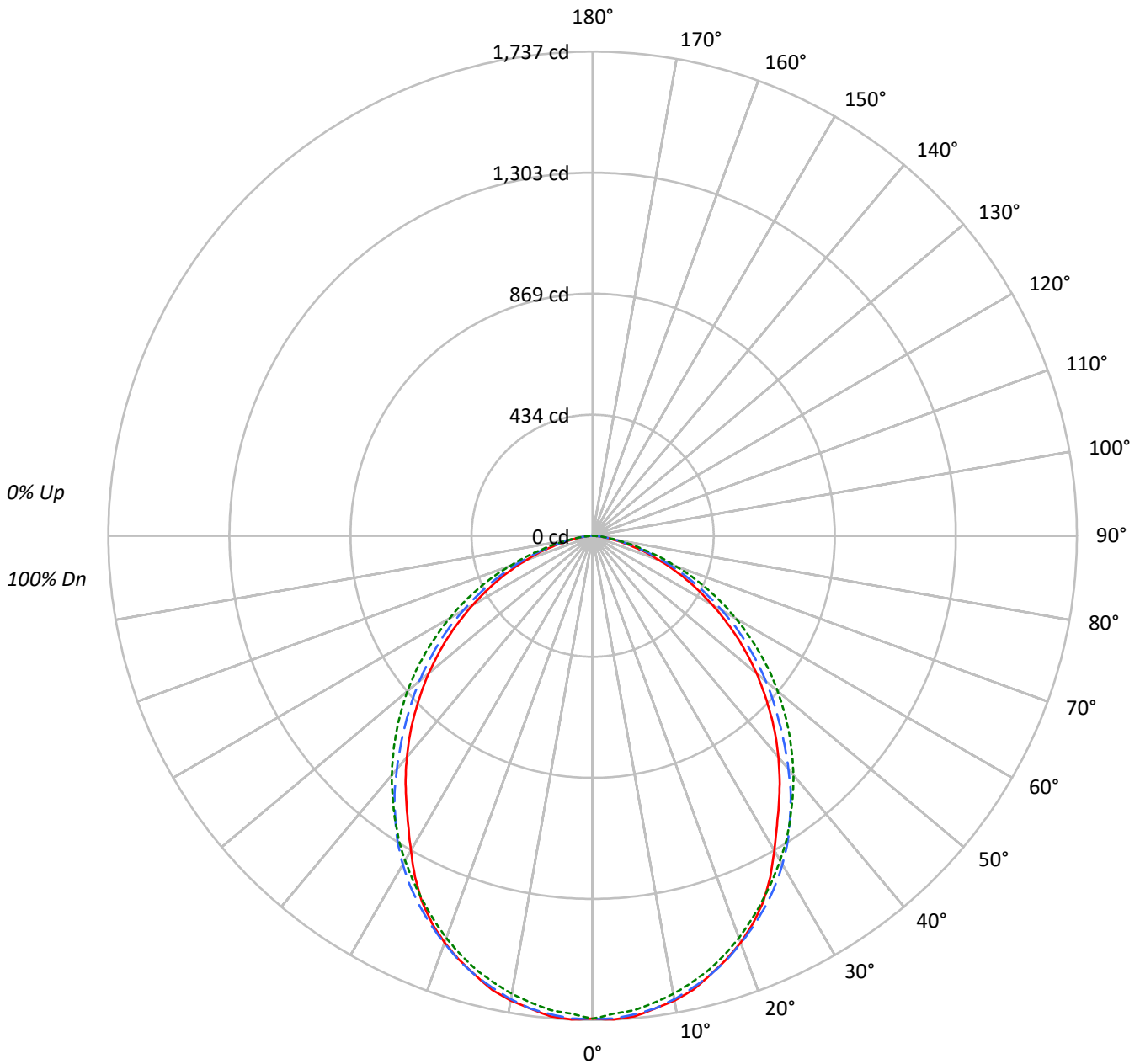
Lumens per Lamp: N/A
Luminaire Lumens: 4006.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	9324	9324	9324
5°	9349	9310	9230
10°	9250	9224	9119
15°	9086	9086	8982
20°	8893	8905	8790
25°	8600	8707	8569
30°	8099	8463	8359
35°	7653	8112	8125
40°	7281	7673	7874
45°	6865	7209	7579
50°	6425	6793	7256
55°	5926	6320	6864
60°	5338	5767	6383
65°	4713	5128	5806
70°	3928	4367	4933
75°	3086	3487	3861
80°	2207	2455	2724
85°	1439	1439	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	4.1
10°-20°	458.3	11.4
20°-30°	669.7	16.7
30°-40°	760.1	19.0
40°-50°	733.8	18.3
50°-60°	605.3	15.1
60°-70°	403.1	10.1
70°-80°	180.4	4.5
80°-90°	32.3	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°	1291.0	32.2
0°-40°	2051.1	51.2
0°-60°	3390.3	84.6
0°-90°	4006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1730	1730	1723	1714	1708	164
15°	1631	1635	1631	1623	1612	460
25°	1448	1460	1466	1456	1443	663
35°	1165	1181	1235	1241	1237	730
45°	902	917	947	990	996	696
55°	632	642	674	711	732	564
65°	370	380	403	431	456	367
75°	148	156	168	176	186	162
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°	1732.5	1732.5	1732.5	1732.5	1732.5
2.5°	1737.2	1737.8	1733.8	1723.2	1716.5
5°	1730.5	1729.8	1723.2	1713.9	1708.5
7.5°	1711.2	1712.5	1710.5	1697.2	1689.9
10°	1692.6	1693.2	1687.9	1677.2	1668.6
12.5°	1668.6	1667.9	1660.6	1655.3	1641.3
15°	1630.7	1634.7	1630.7	1623.3	1612.0
17.5°	1594.1	1594.1	1596.7	1584.1	1575.4
20°	1552.8	1554.8	1554.8	1544.8	1534.8
22.5°	1504.9	1510.9	1512.9	1502.2	1490.2
25°	1448.3	1459.6	1466.3	1455.6	1443.0
27.5°	1379.7	1397.0	1417.0	1409.0	1395.0
30°	1303.2	1328.5	1361.8	1355.1	1345.1
32.5°	1230.6	1255.9	1301.9	1299.2	1293.9
35°	1164.8	1180.7	1234.6	1241.3	1236.6
37.5°	1102.2	1116.8	1167.4	1182.7	1178.7
40°	1036.3	1052.3	1092.2	1119.5	1120.8
42.5°	971.1	986.4	1019.0	1058.3	1058.3
45°	901.9	917.2	947.1	990.4	995.7
47.5°	834.0	849.9	879.2	922.5	931.1
50°	767.4	782.1	811.3	853.3	866.6
52.5°	698.2	714.2	742.8	781.4	800.7
55°	631.6	642.3	673.6	710.8	731.5
57.5°	562.4	572.4	607.7	639.6	660.9
60°	495.9	508.5	535.8	568.4	593.0
62.5°	432.0	445.3	468.6	497.2	525.1
65°	370.1	380.0	402.7	431.3	455.9
67.5°	310.2	318.8	341.4	361.4	387.4
70°	249.6	260.9	277.5	296.8	313.5
72.5°	201.0	205.7	219.6	233.6	250.9
75°	148.4	156.4	167.7	175.7	185.7
77.5°	106.5	111.2	117.8	124.5	133.8
80°	71.2	73.2	79.2	80.5	87.9
82.5°	43.3	44.6	45.9	46.6	49.3
85°	23.3	23.3	23.3	22.0	22.0
87.5°	13.3	13.3	11.3	9.3	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)