

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: P554611

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-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: P554611
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

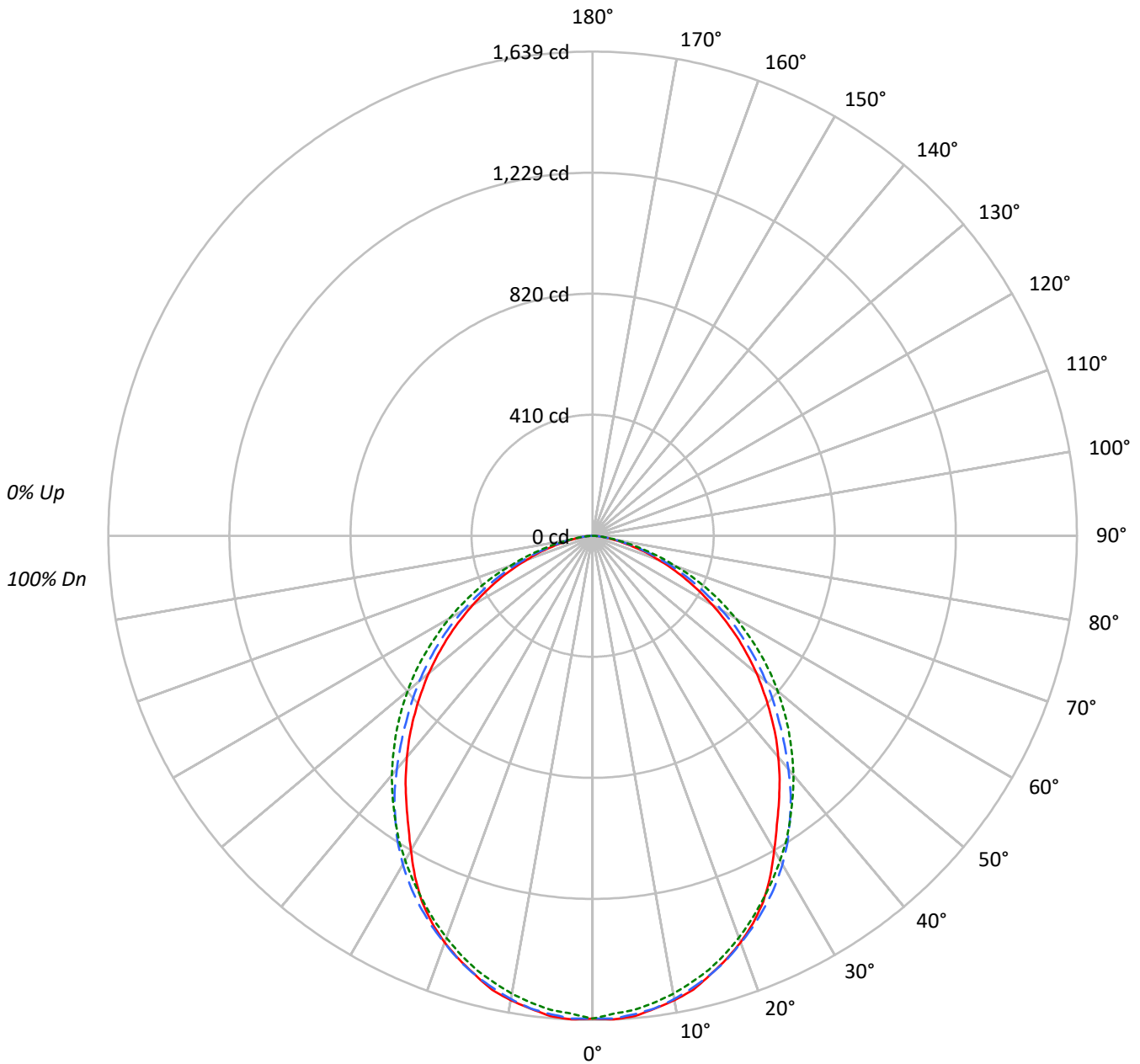
Lumens per Lamp: N/A
Luminaire Lumens: 3779.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8796	8796	8796
5°	8819	8782	8707
10°	8725	8702	8602
15°	8571	8571	8473
20°	8389	8400	8292
25°	8113	8214	8083
30°	7640	7983	7886
35°	7219	7652	7665
40°	6868	7239	7428
45°	6476	6800	7149
50°	6061	6409	6845
55°	5590	5962	6474
60°	5035	5440	6021
65°	4446	4838	5477
70°	3704	4120	4653
75°	2911	3290	3643
80°	2083	2315	2569
85°	1359	1359	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	4.1
10°-20°	432.3	11.4
20°-30°	631.7	16.7
30°-40°	717.1	19.0
40°-50°	692.2	18.3
50°-60°	571.0	15.1
60°-70°	380.3	10.1
70°-80°	170.2	4.5
80°-90°	30.5	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°	1217.9	32.2
0°-40°	1934.9	51.2
0°-60°	3198.2	84.6
0°-90°	3779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1632	1632	1626	1617	1612	155
15°	1538	1542	1538	1531	1521	434
25°	1366	1377	1383	1373	1361	626
35°	1099	1114	1165	1171	1167	688
45°	851	865	893	934	939	656
55°	596	606	635	671	690	532
65°	349	358	380	407	430	346
75°	140	148	158	166	175	153
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.3	1634.3	1634.3	1634.3	1634.3
2.5°	1638.7	1639.3	1635.6	1625.5	1619.3
5°	1632.4	1631.8	1625.5	1616.7	1611.7
7.5°	1614.2	1615.5	1613.6	1601.0	1594.1
10°	1596.6	1597.3	1592.3	1582.2	1574.0
12.5°	1574.0	1573.4	1566.5	1561.5	1548.3
15°	1538.3	1542.0	1538.3	1531.4	1520.7
17.5°	1503.7	1503.7	1506.2	1494.3	1486.1
20°	1464.8	1466.7	1466.7	1457.3	1447.8
22.5°	1419.6	1425.2	1427.1	1417.1	1405.8
25°	1366.2	1376.9	1383.2	1373.1	1361.2
27.5°	1301.6	1317.9	1336.7	1329.2	1316.0
30°	1229.4	1253.2	1284.6	1278.3	1268.9
32.5°	1160.9	1184.8	1228.1	1225.6	1220.6
35°	1098.8	1113.8	1164.7	1171.0	1166.6
37.5°	1039.7	1053.5	1101.3	1115.7	1111.9
40°	977.6	992.6	1030.3	1056.1	1057.3
42.5°	916.0	930.5	961.3	998.3	998.3
45°	850.8	865.2	893.4	934.3	939.3
47.5°	786.7	801.8	829.4	870.2	878.4
50°	723.9	737.7	765.4	804.9	817.5
52.5°	658.6	673.7	700.7	737.1	755.3
55°	595.8	605.9	635.4	670.6	690.0
57.5°	530.5	540.0	573.2	603.4	623.5
60°	467.8	479.7	505.4	536.2	559.4
62.5°	407.5	420.0	442.0	469.0	495.4
65°	349.1	358.5	379.9	406.9	430.1
67.5°	292.6	300.7	322.1	340.9	365.4
70°	235.4	246.1	261.8	280.0	295.7
72.5°	189.6	194.0	207.2	220.4	236.7
75°	140.0	147.5	158.2	165.8	175.2
77.5°	100.5	104.9	111.1	117.4	126.2
80°	67.2	69.1	74.7	76.0	82.9
82.5°	40.8	42.1	43.3	44.0	46.5
85°	22.0	22.0	22.0	20.7	20.7
87.5°	12.6	12.6	10.7	8.8	6.3
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)