

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: P556025

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-88-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: P556025
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-LD4-3STD-40-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

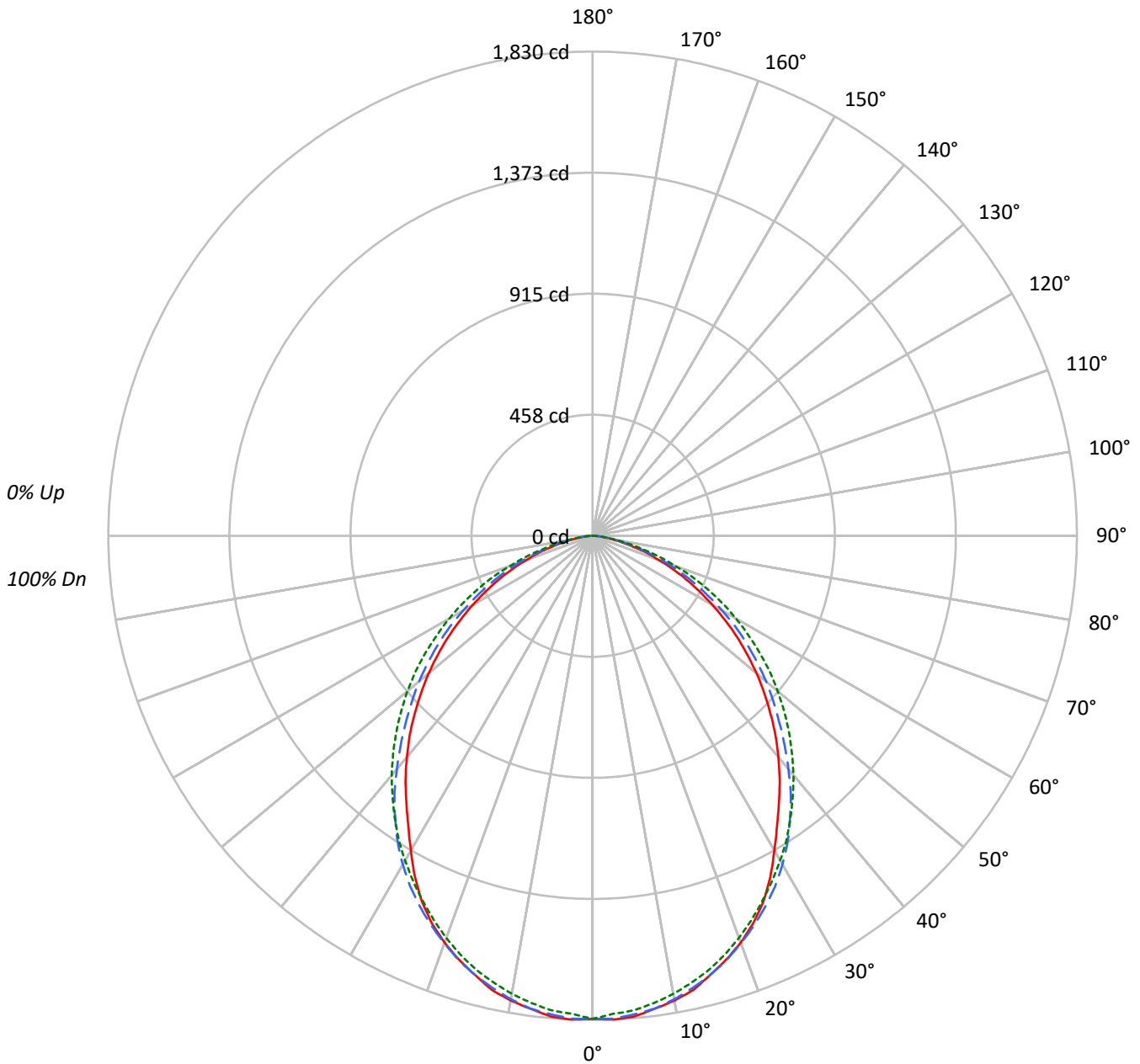
Lumens per Lamp: N/A
Luminaire Lumens: 4221.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	9825	9825	9825
5°	9851	9809	9726
10°	9746	9719	9608
15°	9573	9573	9464
20°	9371	9383	9262
25°	9062	9175	9029
30°	8533	8917	8808
35°	8064	8547	8561
40°	7671	8085	8297
45°	7233	7595	7985
50°	6770	7158	7645
55°	6244	6659	7232
60°	5624	6076	6726
65°	4965	5403	6118
70°	4139	4601	5198
75°	3252	3674	4069
80°	2325	2588	2870
85°	1513	1513	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	4.1
10°-20°	482.8	11.4
20°-30°	705.6	16.7
30°-40°	800.9	19.0
40°-50°	773.2	18.3
50°-60°	637.8	15.1
60°-70°	424.7	10.1
70°-80°	190.1	4.5
80°-90°	34.0	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°	1360.3	32.2
0°-40°	2161.2	51.2
0°-60°	3572.2	84.6
0°-90°	4221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1826	1826	1826	1826	1826	
5°	1823	1823	1816	1806	1800	173
15°	1718	1722	1718	1710	1698	484
25°	1526	1538	1545	1534	1520	699
35°	1227	1244	1301	1308	1303	769
45°	950	966	998	1044	1049	733
55°	666	677	710	749	771	594
65°	390	400	424	454	480	387
75°	156	165	177	185	196	171
85°	24	24	24	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1825.5	1825.5	1825.5	1825.5	1825.5
2.5°	1830.4	1831.1	1826.9	1815.7	1808.6
5°	1823.4	1822.7	1815.7	1805.8	1800.2
7.5°	1803.0	1804.4	1802.3	1788.3	1780.6
10°	1783.4	1784.1	1778.5	1767.3	1758.1
12.5°	1758.1	1757.4	1749.7	1744.1	1729.4
15°	1718.2	1722.4	1718.2	1710.5	1698.5
17.5°	1679.6	1679.6	1682.4	1669.1	1660.0
20°	1636.1	1638.2	1638.2	1627.7	1617.2
22.5°	1585.6	1591.9	1594.0	1582.8	1570.2
25°	1526.0	1537.9	1545.0	1533.7	1520.4
27.5°	1453.8	1472.0	1493.1	1484.6	1469.9
30°	1373.1	1399.8	1434.9	1427.8	1417.3
32.5°	1296.7	1323.3	1371.7	1368.9	1363.3
35°	1227.3	1244.1	1300.9	1307.9	1303.0
37.5°	1161.3	1176.8	1230.1	1246.2	1242.0
40°	1091.9	1108.7	1150.8	1179.6	1181.0
42.5°	1023.2	1039.3	1073.7	1115.1	1115.1
45°	950.3	966.4	997.9	1043.5	1049.1
47.5°	878.7	895.6	926.4	972.0	981.1
50°	808.6	824.0	854.9	899.1	913.1
52.5°	735.7	752.5	782.6	823.3	843.7
55°	665.5	676.8	709.7	749.0	770.7
57.5°	592.6	603.1	640.3	673.9	696.4
60°	522.5	535.8	564.5	598.9	624.9
62.5°	455.1	469.2	493.7	523.9	553.3
65°	389.9	400.4	424.3	454.4	480.4
67.5°	326.8	335.9	359.8	380.8	408.2
70°	263.0	274.9	292.4	312.8	330.3
72.5°	211.8	216.7	231.4	246.2	264.4
75°	156.4	164.8	176.7	185.1	195.7
77.5°	112.2	117.1	124.1	131.1	141.0
80°	75.0	77.1	83.5	84.9	92.6
82.5°	45.6	47.0	48.4	49.1	51.9
85°	24.5	24.5	24.5	23.1	23.1
87.5°	14.0	14.0	11.9	9.8	7.0
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)