

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: P556018

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-80-85-EDD-90**

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: P556018
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-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

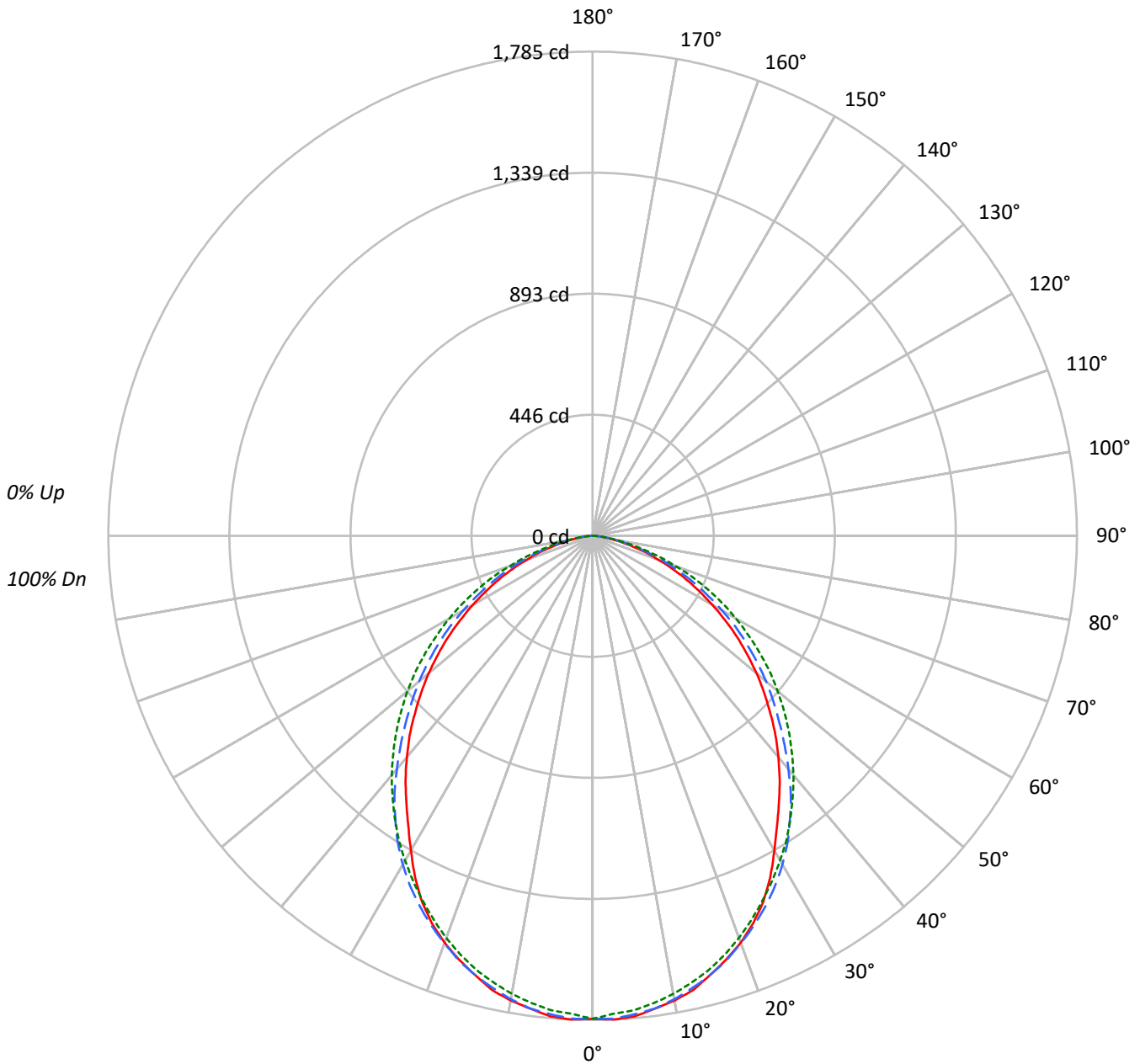
Lumens per Lamp: N/A
Luminaire Lumens: 4117.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	9583	9583	9583
5°	9608	9567	9486
10°	9506	9480	9371
15°	9337	9337	9231
20°	9140	9152	9034
25°	8839	8948	8806
30°	8323	8697	8591
35°	7864	8337	8350
40°	7482	7886	8093
45°	7054	7409	7789
50°	6604	6981	7457
55°	6091	6495	7053
60°	5485	5927	6561
65°	4843	5270	5968
70°	4036	4488	5070
75°	3171	3585	3968
80°	2269	2523	2799
85°	1476	1476	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	4.1
10°-20°	470.9	11.4
20°-30°	688.2	16.7
30°-40°	781.2	19.0
40°-50°	754.1	18.3
50°-60°	622.1	15.1
60°-70°	414.3	10.1
70°-80°	185.4	4.5
80°-90°	33.2	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°	1326.8	32.2
0°-40°	2108.0	51.2
0°-60°	3484.2	84.6
0°-90°	4117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1778	1778	1771	1761	1756	168
15°	1676	1680	1676	1668	1657	472
25°	1488	1500	1507	1496	1483	682
35°	1197	1213	1269	1276	1271	750
45°	927	943	973	1018	1023	715
55°	649	660	692	730	752	579
65°	380	391	414	443	469	377
75°	152	161	172	181	191	167
85°	24	24	24	23	23	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.5	1780.5	1780.5	1780.5	1780.5
2.5°	1785.3	1786.0	1781.9	1770.9	1764.1
5°	1778.4	1777.8	1770.9	1761.3	1755.9
7.5°	1758.6	1760.0	1757.9	1744.2	1736.7
10°	1739.5	1740.1	1734.7	1723.7	1714.8
12.5°	1714.8	1714.1	1706.6	1701.2	1686.8
15°	1675.8	1679.9	1675.8	1668.3	1656.7
17.5°	1638.2	1638.2	1641.0	1628.0	1619.1
20°	1595.8	1597.9	1597.9	1587.6	1577.3
22.5°	1546.6	1552.7	1554.8	1543.8	1531.5
25°	1488.4	1500.0	1506.9	1495.9	1482.9
27.5°	1418.0	1435.8	1456.3	1448.1	1433.7
30°	1339.3	1365.3	1399.5	1392.7	1382.4
32.5°	1264.7	1290.7	1337.9	1335.2	1329.7
35°	1197.0	1213.4	1268.9	1275.7	1270.9
37.5°	1132.7	1147.8	1199.8	1215.5	1211.4
40°	1065.0	1081.4	1122.5	1150.5	1151.9
42.5°	998.0	1013.7	1047.2	1087.6	1087.6
45°	926.8	942.6	973.4	1017.8	1023.3
47.5°	857.1	873.5	903.6	948.0	956.9
50°	788.7	803.7	833.8	876.9	890.6
52.5°	717.5	734.0	763.4	803.0	822.9
55°	649.1	660.1	692.2	730.5	751.7
57.5°	578.0	588.3	624.5	657.3	679.2
60°	509.6	522.6	550.6	584.2	609.5
62.5°	443.9	457.6	481.5	511.0	539.7
65°	380.3	390.6	413.8	443.2	468.6
67.5°	318.8	327.6	350.9	371.4	398.1
70°	256.5	268.1	285.2	305.1	322.2
72.5°	206.6	211.4	225.7	240.1	257.9
75°	152.5	160.7	172.4	180.6	190.8
77.5°	109.4	114.2	121.1	127.9	137.5
80°	73.2	75.2	81.4	82.8	90.3
82.5°	44.5	45.8	47.2	47.9	50.6
85°	23.9	23.9	23.9	22.6	22.6
87.5°	13.7	13.7	11.6	9.6	6.8
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)