

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: P556094

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-97-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: P556094
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-50-UNV-80-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

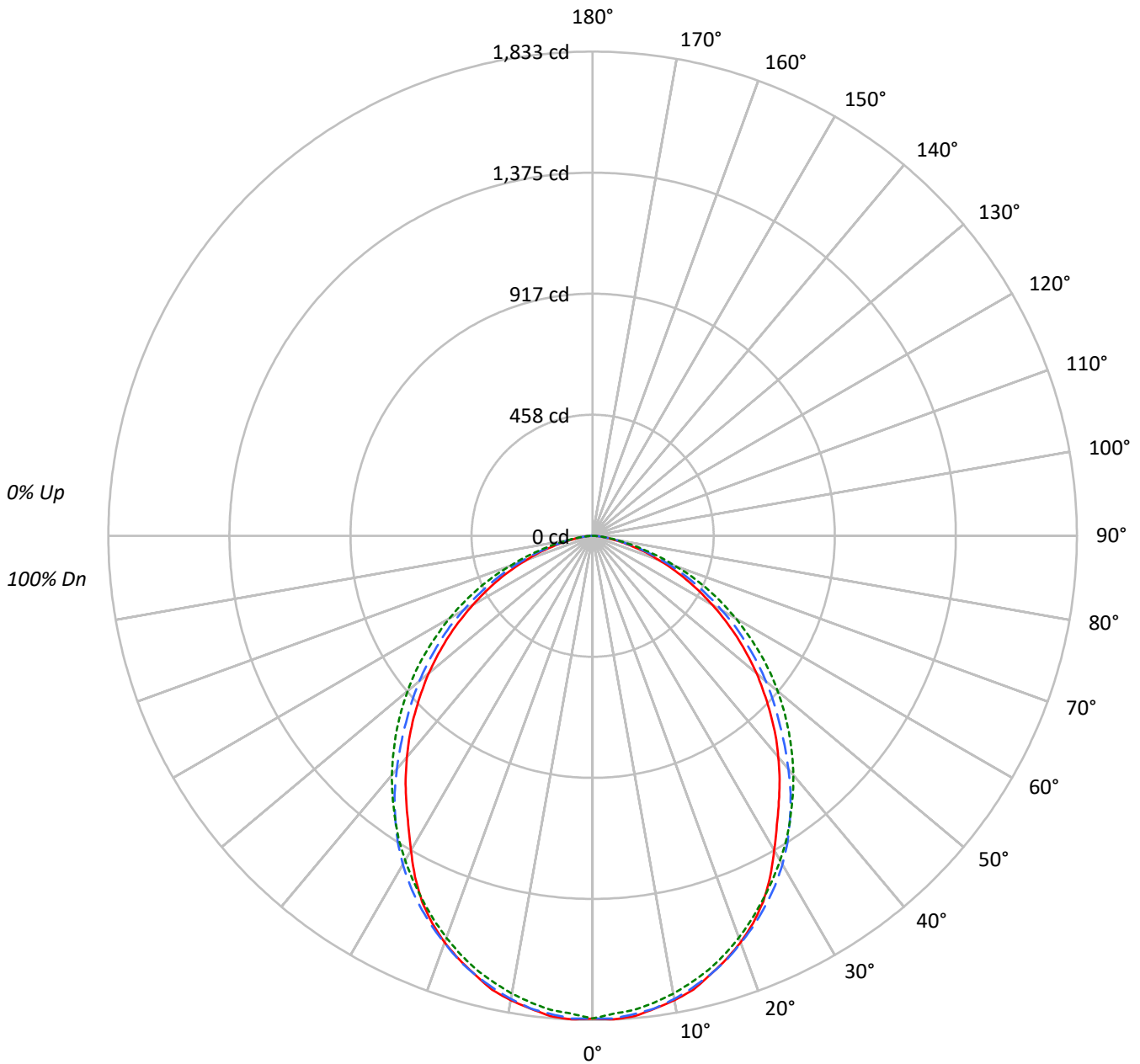
Lumens per Lamp: N/A
Luminaire Lumens: 4226.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	9836	9836	9836
5°	9862	9821	9737
10°	9758	9731	9619
15°	9585	9585	9475
20°	9382	9394	9273
25°	9073	9185	9039
30°	8544	8928	8818
35°	8073	8557	8571
40°	7680	8095	8307
45°	7241	7604	7995
50°	6779	7166	7654
55°	6252	6668	7240
60°	5631	6084	6734
65°	4972	5410	6125
70°	4143	4607	5204
75°	3256	3679	4074
80°	2328	2591	2873
85°	1519	1519	1433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	4.1
10°-20°	483.4	11.4
20°-30°	706.4	16.7
30°-40°	801.9	19.0
40°-50°	774.1	18.3
50°-60°	638.6	15.1
60°-70°	425.2	10.1
70°-80°	190.3	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°	1361.9	32.2
0°-40°	2163.8	51.2
0°-60°	3576.5	84.6
0°-90°	4226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1826	1825	1818	1808	1802	173
15°	1720	1724	1720	1712	1701	485
25°	1528	1540	1547	1536	1522	700
35°	1229	1246	1302	1310	1305	770
45°	951	968	999	1045	1050	734
55°	666	678	711	750	772	595
65°	390	401	425	455	481	387
75°	157	165	177	185	196	171
85°	25	25	25	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.6	1827.6	1827.6	1827.6	1827.6
2.5°	1832.6	1833.3	1829.0	1817.8	1810.8
5°	1825.5	1824.8	1817.8	1808.0	1802.4
7.5°	1805.2	1806.6	1804.5	1790.4	1782.7
10°	1785.5	1786.2	1780.6	1769.4	1760.2
12.5°	1760.2	1759.5	1751.8	1746.2	1731.4
15°	1720.2	1724.4	1720.2	1712.5	1700.6
17.5°	1681.6	1681.6	1684.4	1671.1	1661.9
20°	1638.1	1640.2	1640.2	1629.6	1619.1
22.5°	1587.5	1593.8	1595.9	1584.7	1572.1
25°	1527.8	1539.8	1546.8	1535.6	1522.2
27.5°	1455.5	1473.8	1494.8	1486.4	1471.7
30°	1374.8	1401.4	1436.6	1429.5	1419.0
32.5°	1298.2	1324.9	1373.4	1370.6	1364.9
35°	1228.7	1245.6	1302.4	1309.5	1304.6
37.5°	1162.7	1178.2	1231.5	1247.7	1243.5
40°	1093.2	1110.1	1152.2	1181.0	1182.4
42.5°	1024.4	1040.6	1075.0	1116.4	1116.4
45°	951.4	967.5	999.1	1044.8	1050.4
47.5°	879.8	896.6	927.5	973.1	982.3
50°	809.6	825.0	855.9	900.1	914.2
52.5°	736.5	753.4	783.6	824.3	844.7
55°	666.3	677.6	710.6	749.9	771.6
57.5°	593.3	603.8	641.0	674.7	697.2
60°	523.1	536.4	565.2	599.6	625.6
62.5°	455.7	469.7	494.3	524.5	554.0
65°	390.4	400.9	424.8	455.0	481.0
67.5°	327.2	336.3	360.2	381.3	408.6
70°	263.3	275.2	292.8	313.1	330.7
72.5°	212.0	217.0	231.7	246.4	264.7
75°	156.6	165.0	176.9	185.4	195.9
77.5°	112.3	117.3	124.3	131.3	141.1
80°	75.1	77.2	83.6	85.0	92.7
82.5°	45.6	47.0	48.4	49.1	52.0
85°	24.6	24.6	24.6	23.2	23.2
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)