

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: P554831

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-81-97-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: P554831
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-50-UNV-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

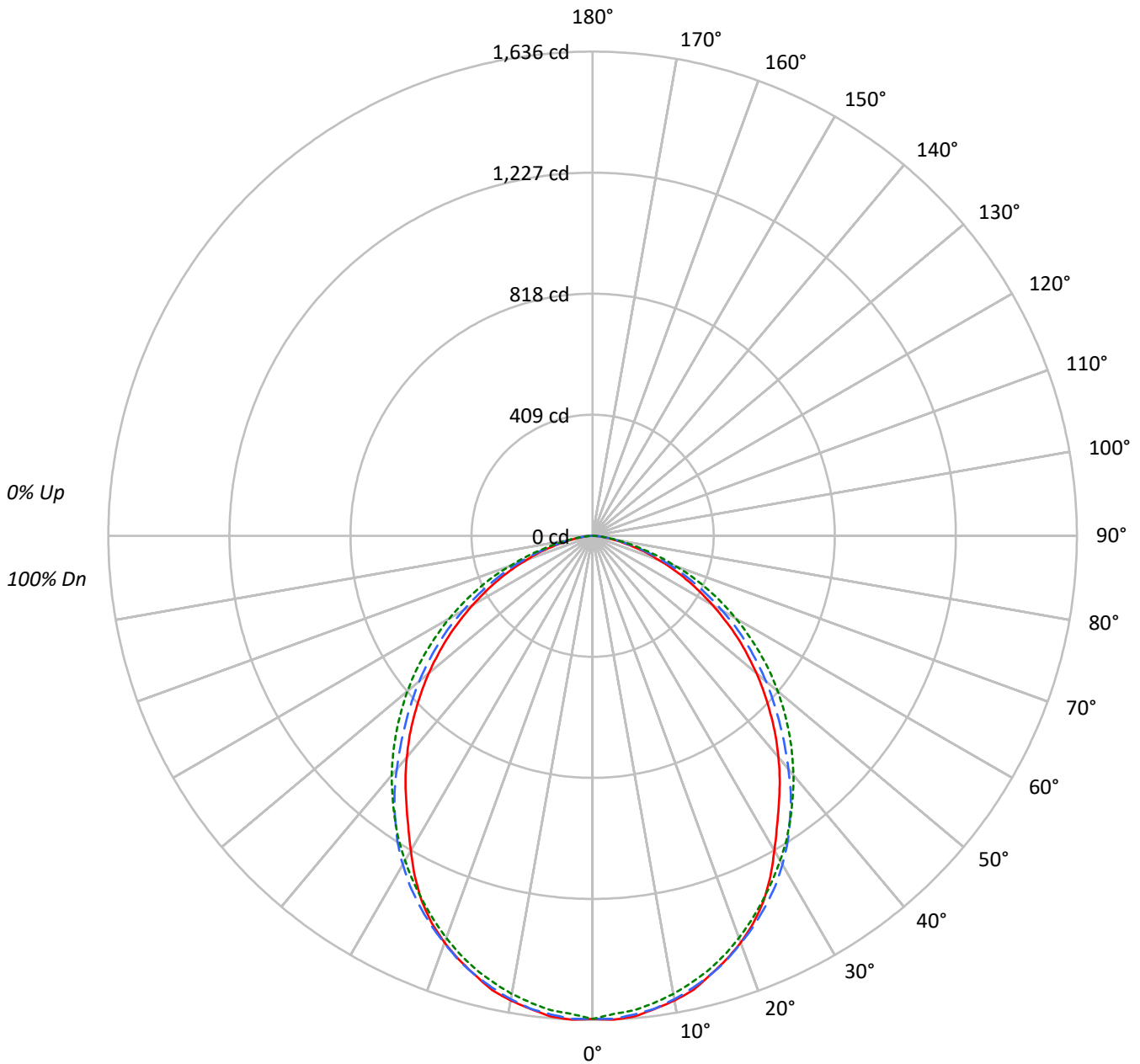
Lumens per Lamp: N/A
Luminaire Lumens: 3774.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8784	8784	8784
5°	8808	8770	8696
10°	8714	8690	8591
15°	8559	8559	8462
20°	8379	8389	8281
25°	8102	8203	8073
30°	7630	7973	7875
35°	7209	7642	7654
40°	6859	7229	7418
45°	6467	6792	7139
50°	6054	6399	6836
55°	5584	5955	6466
60°	5028	5434	6014
65°	4439	4832	5470
70°	3699	4115	4647
75°	2907	3285	3637
80°	2080	2312	2566
85°	1352	1352	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	4.1
10°-20°	431.7	11.4
20°-30°	630.9	16.7
30°-40°	716.1	19.0
40°-50°	691.3	18.3
50°-60°	570.3	15.1
60°-70°	379.8	10.1
70°-80°	169.9	4.5
80°-90°	30.4	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°	1216.2	32.2
0°-40°	1932.4	51.2
0°-60°	3193.9	84.6
0°-90°	3774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1630	1630	1623	1615	1610	154
15°	1536	1540	1536	1529	1519	433
25°	1364	1375	1381	1371	1359	625
35°	1097	1112	1163	1169	1165	688
45°	850	864	892	933	938	656
55°	595	605	635	670	689	531
65°	349	358	379	406	430	346
75°	140	147	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°	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1636.5	1637.2	1633.4	1623.4	1617.1
5°	1630.3	1629.6	1623.4	1614.6	1609.6
7.5°	1612.1	1613.3	1611.5	1598.9	1592.0
10°	1594.5	1595.2	1590.1	1580.1	1572.0
12.5°	1572.0	1571.3	1564.4	1559.4	1546.3
15°	1536.2	1540.0	1536.2	1529.3	1518.7
17.5°	1501.7	1501.7	1504.2	1492.3	1484.2
20°	1462.9	1464.7	1464.7	1455.3	1445.9
22.5°	1417.7	1423.4	1425.2	1415.2	1403.9
25°	1364.4	1375.1	1381.3	1371.3	1359.4
27.5°	1299.8	1316.1	1334.9	1327.4	1314.3
30°	1227.7	1251.6	1282.9	1276.6	1267.2
32.5°	1159.4	1183.2	1226.5	1224.0	1218.9
35°	1097.3	1112.4	1163.1	1169.4	1165.0
37.5°	1038.4	1052.2	1099.8	1114.2	1110.5
40°	976.3	991.3	1029.0	1054.7	1055.9
42.5°	914.8	929.3	960.0	997.0	997.0
45°	849.6	864.0	892.3	933.0	938.0
47.5°	785.7	800.7	828.3	869.1	877.2
50°	723.0	736.8	764.3	803.9	816.4
52.5°	657.8	672.8	699.8	736.1	754.3
55°	595.1	605.1	634.6	669.7	689.1
57.5°	529.8	539.2	572.5	602.6	622.6
60°	467.1	479.1	504.8	535.5	558.7
62.5°	406.9	419.5	441.4	468.4	494.7
65°	348.6	358.0	379.4	406.3	429.5
67.5°	292.2	300.3	321.7	340.5	364.9
70°	235.1	245.8	261.5	279.7	295.3
72.5°	189.4	193.8	206.9	220.1	236.4
75°	139.8	147.4	158.0	165.5	174.9
77.5°	100.3	104.7	111.0	117.3	126.0
80°	67.1	69.0	74.6	75.9	82.8
82.5°	40.8	42.0	43.3	43.9	46.4
85°	21.9	21.9	21.9	20.7	20.7
87.5°	12.5	12.5	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)