

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: P555334

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-81-87-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: P555334
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-LD4-2STD-50-UNV-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

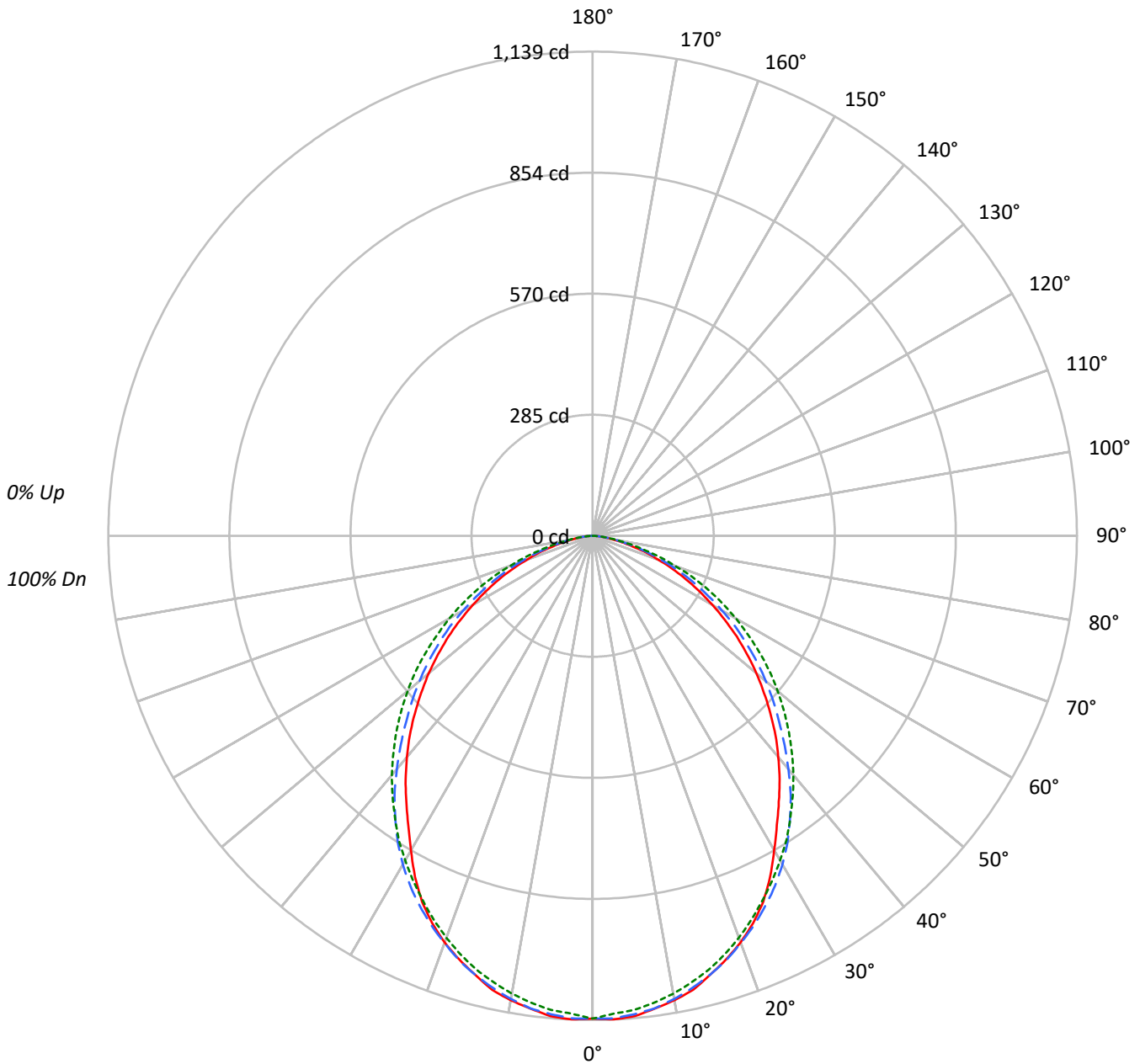
Lumens per Lamp: N/A
Luminaire Lumens: 2626.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6112	6112	6112
5°	6129	6103	6051
10°	6063	6046	5978
15°	5956	5956	5888
20°	5830	5837	5762
25°	5638	5708	5617
30°	5309	5548	5480
35°	5016	5317	5326
40°	4773	5030	5162
45°	4500	4725	4968
50°	4212	4453	4757
55°	3885	4143	4499
60°	3498	3780	4184
65°	3089	3362	3806
70°	2574	2862	3234
75°	2023	2285	2531
80°	1447	1609	1785
85°	945	945	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	4.1
10°-20°	300.4	11.4
20°-30°	439.0	16.7
30°-40°	498.3	19.0
40°-50°	481.0	18.3
50°-60°	396.8	15.1
60°-70°	264.2	10.1
70°-80°	118.2	4.5
80°-90°	21.2	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°	846.3	32.2
0°-40°	1344.6	51.2
0°-60°	2222.4	84.6
0°-90°	2626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1134	1134	1130	1124	1120	107
15°	1069	1072	1069	1064	1057	301
25°	949	957	961	954	946	435
35°	764	774	809	814	811	478
45°	591	601	621	649	653	456
55°	414	421	442	466	480	370
65°	243	249	264	283	299	241
75°	97	102	110	115	122	106
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.7	1135.7	1135.7	1135.7	1135.7
2.5°	1138.7	1139.2	1136.5	1129.6	1125.2
5°	1134.4	1133.9	1129.6	1123.5	1120.0
7.5°	1121.7	1122.6	1121.3	1112.6	1107.8
10°	1109.5	1109.9	1106.4	1099.5	1093.8
12.5°	1093.8	1093.4	1088.6	1085.1	1075.9
15°	1068.9	1071.5	1068.9	1064.1	1056.7
17.5°	1044.9	1044.9	1046.7	1038.4	1032.7
20°	1017.9	1019.2	1019.2	1012.6	1006.1
22.5°	986.5	990.4	991.7	984.7	976.9
25°	949.4	956.8	961.2	954.2	945.9
27.5°	904.4	915.8	928.9	923.6	914.5
30°	854.3	870.8	892.7	888.3	881.8
32.5°	806.7	823.3	853.4	851.6	848.2
35°	763.5	774.0	809.3	813.7	810.6
37.5°	722.5	732.1	765.3	775.3	772.7
40°	679.3	689.8	716.0	733.8	734.7
42.5°	636.6	646.6	668.0	693.7	693.7
45°	591.2	601.2	620.8	649.2	652.7
47.5°	546.7	557.1	576.3	604.7	610.4
50°	503.0	512.6	531.8	559.3	568.1
52.5°	457.7	468.1	486.9	512.2	524.9
55°	414.0	421.0	441.5	466.0	479.5
57.5°	368.7	375.2	398.3	419.3	433.2
60°	325.0	333.3	351.2	372.6	388.7
62.5°	283.2	291.9	307.2	325.9	344.2
65°	242.6	249.1	264.0	282.7	298.9
67.5°	203.3	209.0	223.8	236.9	253.9
70°	163.6	171.0	181.9	194.6	205.5
72.5°	131.8	134.8	144.0	153.1	164.5
75°	97.3	102.5	109.9	115.2	121.7
77.5°	69.8	72.9	77.2	81.6	87.7
80°	46.7	48.0	51.9	52.8	57.6
82.5°	28.4	29.2	30.1	30.5	32.3
85°	15.3	15.3	15.3	14.4	14.4
87.5°	8.7	8.7	7.4	6.1	4.4
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)