

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: P555228

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-96-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: P555228
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-35-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

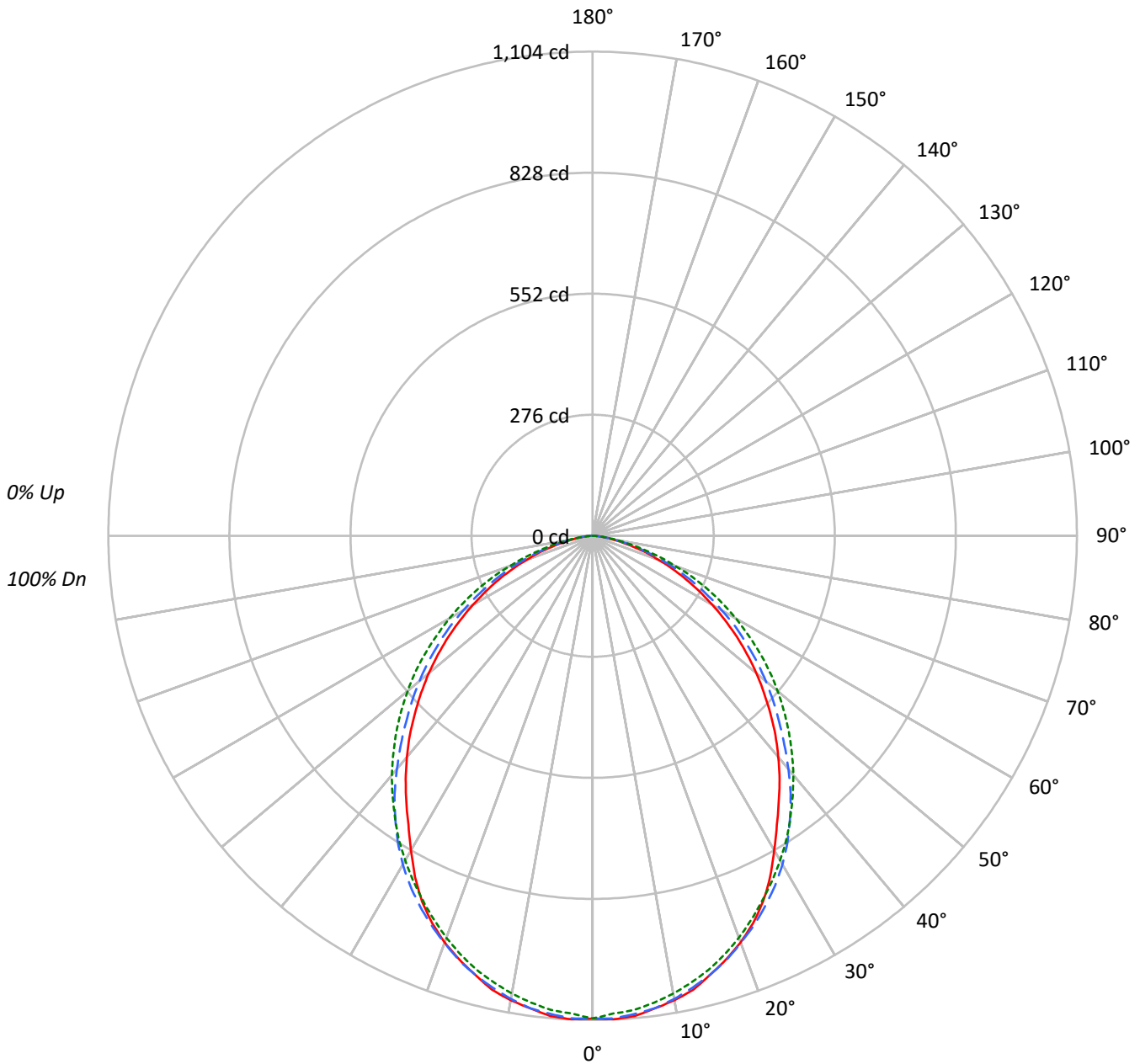
Lumens per Lamp: N/A
Luminaire Lumens: 2545.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	5923	5923	5923
5°	5940	5914	5864
10°	5876	5860	5793
15°	5772	5772	5706
20°	5650	5657	5585
25°	5464	5532	5444
30°	5145	5376	5311
35°	4862	5154	5162
40°	4626	4875	5003
45°	4360	4580	4815
50°	4082	4315	4609
55°	3765	4015	4360
60°	3391	3664	4055
65°	2994	3258	3688
70°	2496	2774	3135
75°	1961	2217	2454
80°	1401	1559	1729
85°	914	914	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	4.1
10°-20°	291.1	11.4
20°-30°	425.4	16.7
30°-40°	482.9	19.0
40°-50°	466.2	18.3
50°-60°	384.6	15.1
60°-70°	256.1	10.1
70°-80°	114.6	4.5
80°-90°	20.5	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°	820.2	32.2
0°-40°	1303.1	51.2
0°-60°	2153.8	84.6
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1099	1099	1095	1089	1085	104
15°	1036	1038	1036	1031	1024	292
25°	920	927	932	925	917	421
35°	740	750	784	789	786	464
45°	573	583	602	629	633	442
55°	401	408	428	452	465	358
65°	235	241	256	274	290	233
75°	94	99	107	112	118	103
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.6	1100.6	1100.6	1100.6	1100.6
2.5°	1103.6	1104.0	1101.5	1094.7	1090.5
5°	1099.4	1099.0	1094.7	1088.8	1085.4
7.5°	1087.1	1088.0	1086.7	1078.2	1073.6
10°	1075.3	1075.7	1072.3	1065.6	1060.1
12.5°	1060.1	1059.6	1055.0	1051.6	1042.7
15°	1036.0	1038.5	1036.0	1031.3	1024.1
17.5°	1012.7	1012.7	1014.4	1006.4	1000.9
20°	986.5	987.7	987.7	981.4	975.1
22.5°	956.0	959.8	961.1	954.3	946.7
25°	920.1	927.3	931.5	924.7	916.7
27.5°	876.5	887.5	900.2	895.1	886.3
30°	827.9	844.0	865.1	860.9	854.6
32.5°	781.8	797.9	827.1	825.4	822.0
35°	740.0	750.1	784.4	788.6	785.6
37.5°	700.2	709.5	741.7	751.4	748.8
40°	658.4	668.5	693.9	711.2	712.1
42.5°	616.9	626.6	647.4	672.3	672.3
45°	572.9	582.7	601.7	629.2	632.6
47.5°	529.8	540.0	558.6	586.1	591.6
50°	487.5	496.8	515.4	542.1	550.5
52.5°	443.6	453.7	471.9	496.4	508.7
55°	401.3	408.0	427.9	451.6	464.7
57.5°	357.3	363.6	386.1	406.3	419.9
60°	315.0	323.0	340.4	361.1	376.7
62.5°	274.4	282.9	297.7	315.9	333.6
65°	235.1	241.4	255.8	274.0	289.6
67.5°	197.0	202.5	216.9	229.6	246.1
70°	158.6	165.8	176.3	188.6	199.2
72.5°	127.7	130.7	139.5	148.4	159.4
75°	94.3	99.4	106.6	111.6	118.0
77.5°	67.7	70.6	74.8	79.1	85.0
80°	45.2	46.5	50.3	51.2	55.8
82.5°	27.5	28.3	29.2	29.6	31.3
85°	14.8	14.8	14.8	14.0	14.0
87.5°	8.5	8.5	7.2	5.9	4.2
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)