

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: P555336

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-81-88-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: P555336
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-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

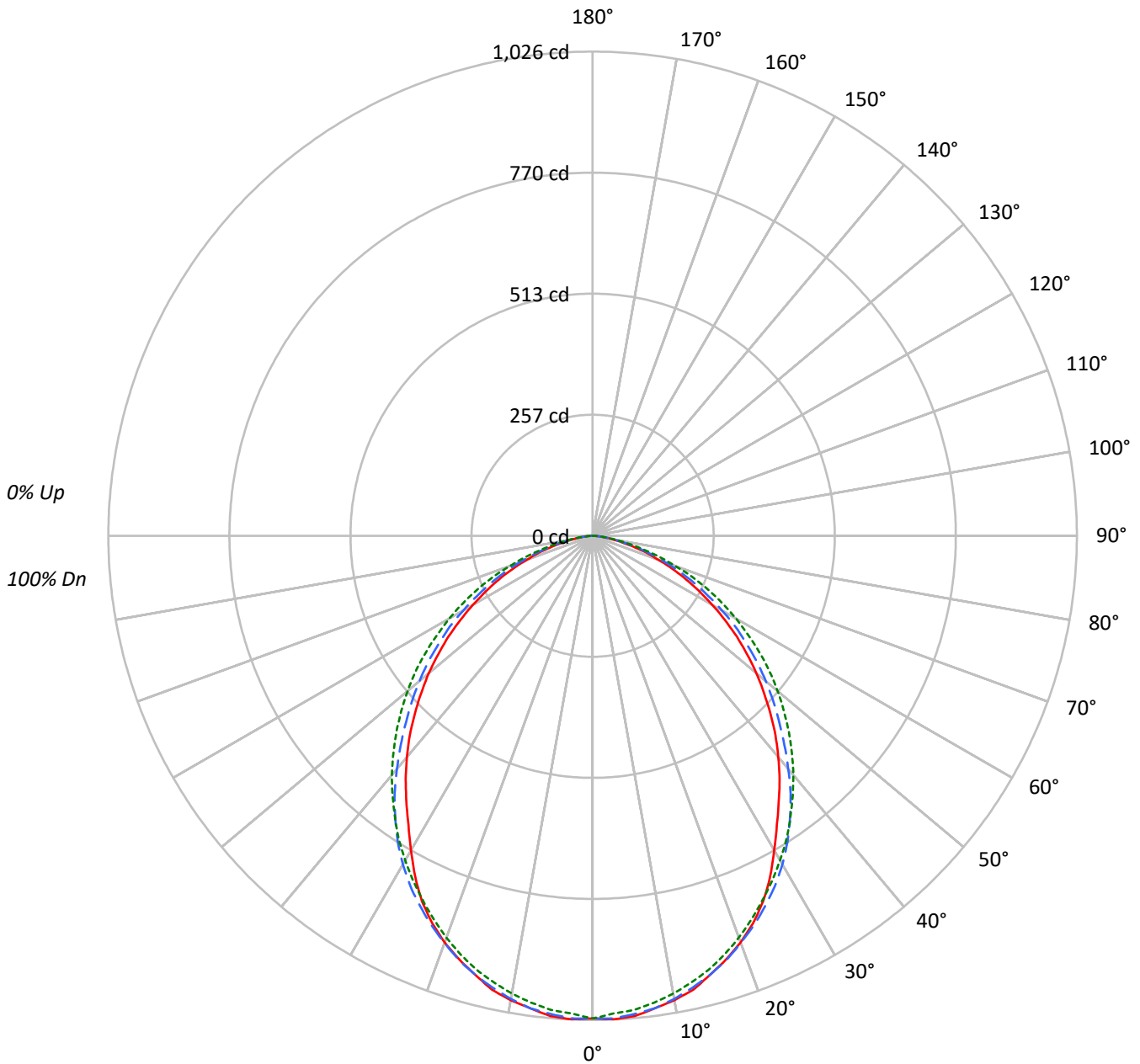
Lumens per Lamp: N/A
Luminaire Lumens: 2365.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5505	5505	5505
5°	5519	5496	5450
10°	5461	5446	5384
15°	5364	5364	5303
20°	5250	5257	5190
25°	5077	5140	5059
30°	4781	4996	4935
35°	4518	4789	4797
40°	4298	4530	4649
45°	4052	4255	4474
50°	3794	4011	4284
55°	3499	3731	4052
60°	3151	3405	3768
65°	2783	3027	3428
70°	2318	2579	2913
75°	1822	2059	2279
80°	1302	1450	1609
85°	852	852	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	4.1
10°-20°	270.5	11.4
20°-30°	395.3	16.7
30°-40°	448.8	19.0
40°-50°	433.2	18.3
50°-60°	357.4	15.1
60°-70°	238.0	10.1
70°-80°	106.5	4.5
80°-90°	19.1	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°	762.2	32.2
0°-40°	1210.9	51.2
0°-60°	2001.5	84.6
0°-90°	2365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1022	1021	1017	1012	1009	97
15°	963	965	963	958	952	271
25°	855	862	866	859	852	392
35°	688	697	729	733	730	431
45°	532	542	559	585	588	411
55°	373	379	398	420	432	333
65°	218	224	238	255	269	217
75°	88	92	99	104	110	96
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.8	1022.8	1022.8	1022.8	1022.8
2.5°	1025.6	1025.9	1023.6	1017.3	1013.4
5°	1021.6	1021.2	1017.3	1011.8	1008.7
7.5°	1010.2	1011.0	1009.8	1002.0	997.7
10°	999.2	999.6	996.5	990.2	985.1
12.5°	985.1	984.7	980.4	977.2	969.0
15°	962.7	965.0	962.7	958.4	951.7
17.5°	941.1	941.1	942.6	935.2	930.1
20°	916.7	917.9	917.9	912.0	906.1
22.5°	888.4	892.0	893.1	886.8	879.8
25°	855.0	861.7	865.6	859.3	851.9
27.5°	814.5	824.8	836.6	831.8	823.6
30°	769.4	784.3	803.9	800.0	794.1
32.5°	726.5	741.5	768.6	767.0	763.9
35°	687.6	697.1	728.9	732.8	730.1
37.5°	650.7	659.3	689.2	698.2	695.9
40°	611.8	621.2	644.8	660.9	661.7
42.5°	573.3	582.3	601.6	624.8	624.8
45°	532.4	541.5	559.1	584.7	587.8
47.5°	492.3	501.8	519.1	544.6	549.7
50°	453.1	461.7	479.0	503.7	511.6
52.5°	412.2	421.6	438.5	461.3	472.7
55°	372.9	379.2	397.6	419.7	431.8
57.5°	332.0	337.9	358.7	377.6	390.2
60°	292.7	300.2	316.3	335.6	350.1
62.5°	255.0	262.9	276.6	293.5	310.0
65°	218.5	224.4	237.7	254.6	269.2
67.5°	183.1	188.2	201.6	213.4	228.7
70°	147.3	154.0	163.9	175.2	185.1
72.5°	118.7	121.4	129.7	137.9	148.1
75°	87.6	92.3	99.0	103.7	109.6
77.5°	62.9	65.6	69.5	73.5	79.0
80°	42.0	43.2	46.8	47.5	51.9
82.5°	25.5	26.3	27.1	27.5	29.1
85°	13.8	13.8	13.8	13.0	13.0
87.5°	7.9	7.9	6.7	5.5	3.9
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)