

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: P555009

Luminaire Tested: **FUSL-12-2-LD4-2LO-40-UNV-81-84-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: P555009
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-LD4-2LO-40-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

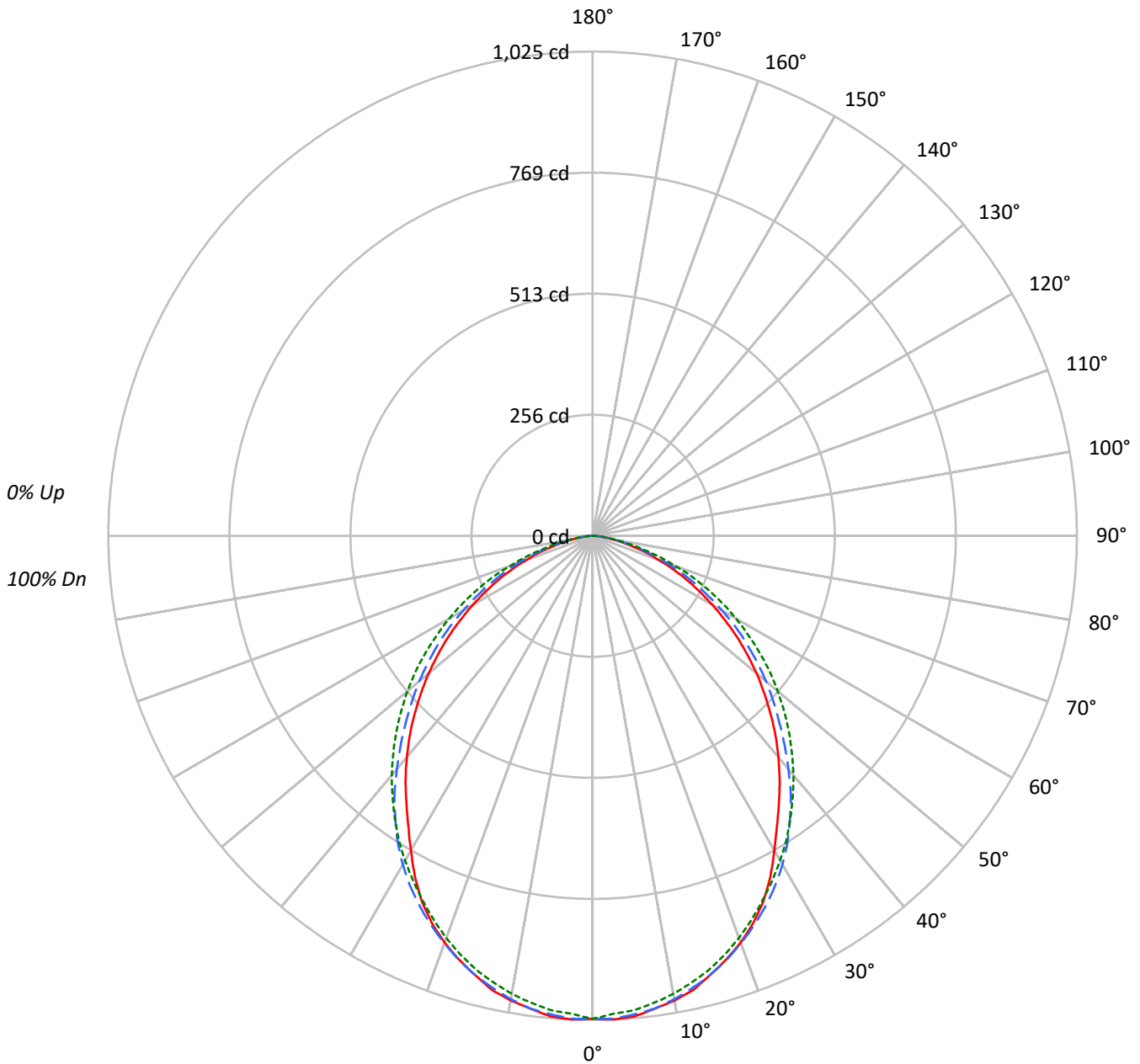
Lumens per Lamp: N/A
Luminaire Lumens: 2364.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5503	5503	5503
5°	5517	5494	5447
10°	5458	5444	5381
15°	5362	5362	5300
20°	5248	5255	5187
25°	5075	5138	5056
30°	4779	4994	4933
35°	4516	4787	4795
40°	4296	4528	4647
45°	4051	4254	4472
50°	3792	4009	4282
55°	3497	3730	4050
60°	3150	3404	3767
65°	2781	3026	3426
70°	2318	2578	2911
75°	1822	2059	2279
80°	1302	1447	1605
85°	846	846	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	4.1
10°-20°	270.4	11.4
20°-30°	395.2	16.7
30°-40°	448.6	19.0
40°-50°	433.0	18.3
50°-60°	357.2	15.1
60°-70°	237.9	10.1
70°-80°	106.4	4.5
80°-90°	19.0	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°	761.9	32.2
0°-40°	1210.4	51.2
0°-60°	2000.6	84.6
0°-90°	2364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1021	1021	1017	1011	1008	97
15°	962	965	962	958	951	271
25°	855	861	865	859	852	391
35°	687	697	729	732	730	431
45°	532	541	559	584	588	411
55°	373	379	398	420	432	333
65°	218	224	238	254	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°	1022.4	1022.4	1022.4	1022.4	1022.4
2.5°	1025.1	1025.5	1023.2	1016.9	1012.9
5°	1021.2	1020.8	1016.9	1011.4	1008.2
7.5°	1009.8	1010.6	1009.4	1001.6	997.2
10°	998.8	999.2	996.1	989.8	984.7
12.5°	984.7	984.3	980.0	976.8	968.6
15°	962.3	964.6	962.3	958.0	951.3
17.5°	940.7	940.7	942.2	934.8	929.7
20°	916.3	917.5	917.5	911.6	905.7
22.5°	888.0	891.6	892.8	886.5	879.4
25°	854.7	861.3	865.3	859.0	851.5
27.5°	814.2	824.4	836.2	831.5	823.2
30°	769.0	784.0	803.6	799.7	793.8
32.5°	726.2	741.1	768.2	766.7	763.5
35°	687.3	696.8	728.6	732.5	729.8
37.5°	650.4	659.1	688.9	697.9	695.6
40°	611.5	621.0	644.5	660.6	661.4
42.5°	573.0	582.1	601.3	624.5	624.5
45°	532.2	541.2	558.9	584.4	587.6
47.5°	492.1	501.6	518.8	544.4	549.5
50°	452.9	461.5	478.8	503.5	511.4
52.5°	412.0	421.4	438.3	461.1	472.5
55°	372.7	379.0	397.5	419.5	431.6
57.5°	331.9	337.8	358.6	377.4	390.0
60°	292.6	300.1	316.2	335.4	350.0
62.5°	254.9	262.8	276.5	293.4	309.9
65°	218.4	224.3	237.6	254.5	269.0
67.5°	183.0	188.1	201.5	213.3	228.6
70°	147.3	154.0	163.8	175.2	185.0
72.5°	118.6	121.4	129.6	137.9	148.1
75°	87.6	92.3	99.0	103.7	109.6
77.5°	62.8	65.6	69.5	73.4	78.9
80°	42.0	43.2	46.7	47.5	51.8
82.5°	25.5	26.3	27.1	27.5	29.1
85°	13.7	13.7	13.7	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)