

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: P555721

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-88-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: P555721
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-LD4-3LO-35-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

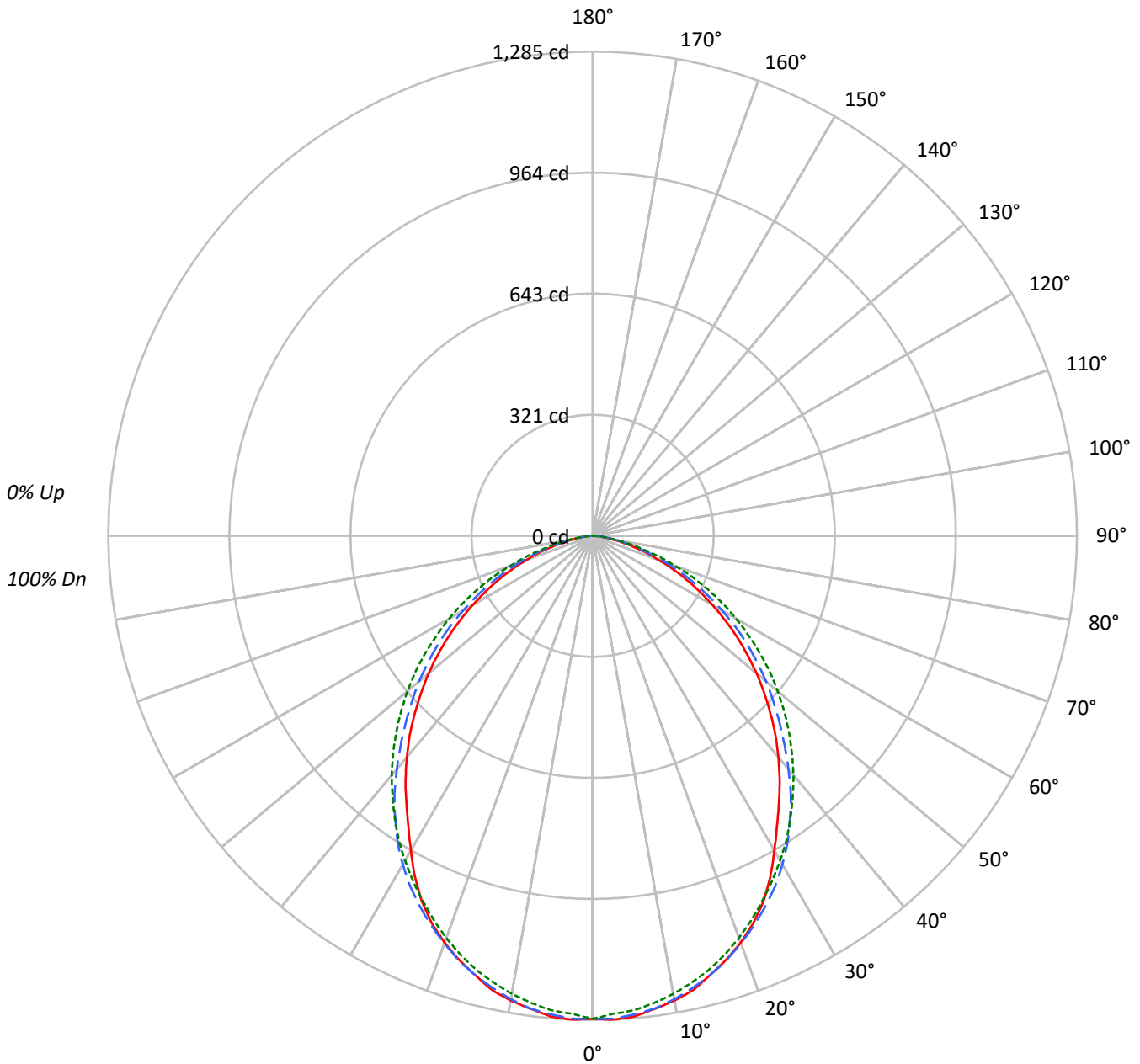
Lumens per Lamp: N/A
Luminaire Lumens: 2964.0 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6899	6899	6899
5°	6917	6888	6829
10°	6844	6825	6747
15°	6722	6722	6646
20°	6580	6589	6504
25°	6364	6442	6340
30°	5992	6262	6185
35°	5662	6002	6012
40°	5387	5677	5826
45°	5079	5334	5607
50°	4754	5026	5369
55°	4385	4677	5078
60°	3949	4267	4723
65°	3487	3794	4295
70°	2906	3232	3649
75°	2283	2581	2857
80°	1633	1816	2015
85°	1062	1062	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	4.1
10°-20°	339.1	11.4
20°-30°	495.5	16.7
30°-40°	562.4	19.0
40°-50°	542.9	18.3
50°-60°	447.9	15.1
60°-70°	298.2	10.1
70°-80°	133.5	4.5
80°-90°	23.9	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°	955.2	32.2
0°-40°	1517.6	51.2
0°-60°	2508.4	84.6
0°-90°	2964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1280	1280	1275	1268	1264	121
15°	1206	1210	1206	1201	1193	340
25°	1072	1080	1085	1077	1068	491
35°	862	874	914	918	915	540
45°	667	679	701	733	737	515
55°	467	475	498	526	541	417
65°	274	281	298	319	337	272
75°	110	116	124	130	137	120
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.9	1281.9	1281.9	1281.9	1281.9
2.5°	1285.3	1285.8	1282.8	1275.0	1270.0
5°	1280.4	1279.9	1275.0	1268.1	1264.1
7.5°	1266.1	1267.1	1265.6	1255.8	1250.3
10°	1252.3	1252.8	1248.9	1241.0	1234.6
12.5°	1234.6	1234.1	1228.7	1224.7	1214.4
15°	1206.5	1209.5	1206.5	1201.1	1192.7
17.5°	1179.4	1179.4	1181.4	1172.0	1165.6
20°	1148.9	1150.4	1150.4	1143.0	1135.6
22.5°	1113.4	1117.9	1119.3	1111.5	1102.6
25°	1071.6	1079.9	1084.9	1077.0	1067.6
27.5°	1020.9	1033.7	1048.4	1042.5	1032.2
30°	964.2	982.9	1007.6	1002.6	995.2
32.5°	910.5	929.3	963.2	961.3	957.3
35°	861.8	873.6	913.5	918.4	915.0
37.5°	815.5	826.3	863.8	875.1	872.1
40°	766.7	778.6	808.1	828.3	829.3
42.5°	718.5	729.8	753.9	783.0	783.0
45°	667.3	678.6	700.8	732.8	736.7
47.5°	617.0	628.9	650.5	682.5	688.9
50°	567.8	578.6	600.3	631.3	641.2
52.5°	516.6	528.4	549.6	578.1	592.4
55°	467.3	475.2	498.4	525.9	541.2
57.5°	416.1	423.5	449.6	473.2	489.0
60°	366.9	376.2	396.4	420.6	438.8
62.5°	319.6	329.5	346.7	367.9	388.5
65°	273.8	281.2	297.9	319.1	337.3
67.5°	229.5	235.9	252.6	267.4	286.6
70°	184.7	193.0	205.4	219.6	231.9
72.5°	148.7	152.2	162.5	172.9	185.7
75°	109.8	115.7	124.1	130.0	137.4
77.5°	78.8	82.2	87.2	92.1	99.0
80°	52.7	54.2	58.6	59.6	65.0
82.5°	32.0	33.0	34.0	34.5	36.4
85°	17.2	17.2	17.2	16.3	16.3
87.5°	9.8	9.8	8.4	6.9	4.9
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)