

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: P555648

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-84-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: P555648
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-30-UNV-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

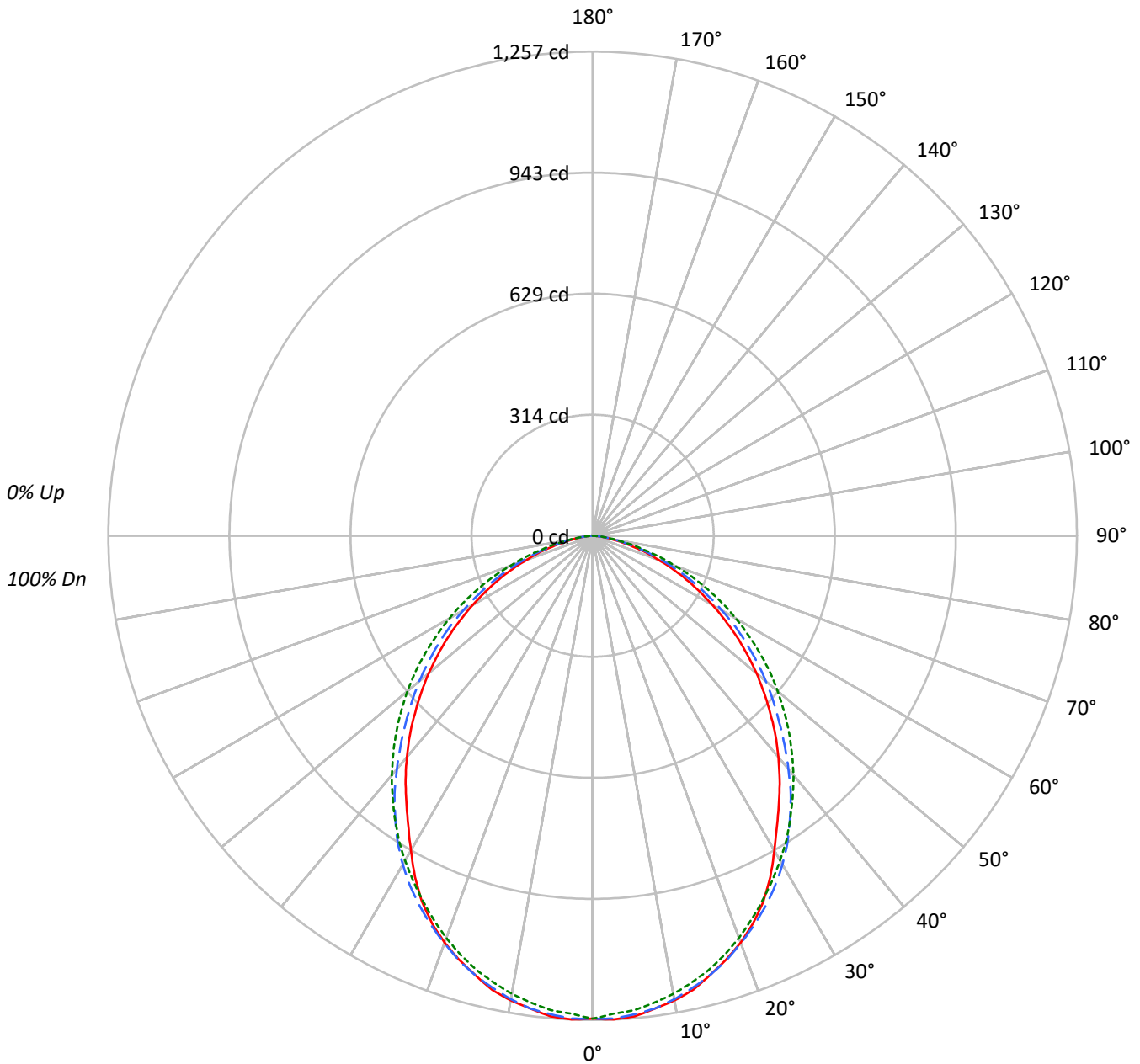
Lumens per Lamp: N/A
Luminaire Lumens: 2899.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6747	6747	6747
5°	6766	6737	6680
10°	6694	6675	6599
15°	6575	6575	6500
20°	6436	6444	6361
25°	6224	6301	6201
30°	5861	6124	6049
35°	5538	5870	5880
40°	5269	5553	5699
45°	4967	5217	5485
50°	4649	4916	5251
55°	4289	4573	4967
60°	3862	4173	4620
65°	3410	3711	4201
70°	2842	3160	3570
75°	2233	2524	2795
80°	1596	1776	1971
85°	1044	1044	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	4.1
10°-20°	331.6	11.4
20°-30°	484.6	16.7
30°-40°	550.1	19.0
40°-50°	531.0	18.3
50°-60°	438.0	15.1
60°-70°	291.7	10.1
70°-80°	130.5	4.5
80°-90°	23.4	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°	934.3	32.2
0°-40°	1484.3	51.2
0°-60°	2453.4	84.6
0°-90°	2899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1252	1252	1247	1240	1236	119
15°	1180	1183	1180	1175	1167	333
25°	1048	1056	1061	1053	1044	480
35°	843	854	894	898	895	528
45°	653	664	685	717	721	504
55°	457	465	487	514	529	408
65°	268	275	291	312	330	266
75°	107	113	121	127	134	117
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°	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1257.1	1257.6	1254.7	1247.0	1242.2
5°	1252.3	1251.8	1247.0	1240.3	1236.4
7.5°	1238.3	1239.3	1237.8	1228.2	1222.9
10°	1224.8	1225.3	1221.5	1213.8	1207.5
12.5°	1207.5	1207.0	1201.7	1197.9	1187.8
15°	1180.0	1182.9	1180.0	1174.8	1166.6
17.5°	1153.6	1153.6	1155.5	1146.3	1140.1
20°	1123.7	1125.1	1125.1	1117.9	1110.7
22.5°	1089.0	1093.4	1094.8	1087.1	1078.4
25°	1048.1	1056.3	1061.1	1053.4	1044.2
27.5°	998.5	1011.0	1025.4	1019.7	1009.5
30°	943.1	961.4	985.5	980.6	973.4
32.5°	890.6	908.9	942.1	940.2	936.3
35°	842.9	854.5	893.5	898.3	894.9
37.5°	797.6	808.2	844.8	855.9	853.0
40°	749.9	761.5	790.4	810.1	811.1
42.5°	702.7	713.8	737.4	765.8	765.8
45°	652.6	663.7	685.4	716.7	720.6
47.5°	603.5	615.1	636.3	667.6	673.8
50°	555.3	565.9	587.1	617.5	627.1
52.5°	505.3	516.8	537.5	565.5	579.4
55°	457.1	464.8	487.4	514.4	529.3
57.5°	407.0	414.2	439.7	462.9	478.3
60°	358.8	368.0	387.7	411.3	429.2
62.5°	312.6	322.2	339.1	359.8	380.0
65°	267.8	275.0	291.4	312.1	329.9
67.5°	224.5	230.7	247.1	261.5	280.3
70°	180.6	188.8	200.8	214.8	226.9
72.5°	145.5	148.8	158.9	169.1	181.6
75°	107.4	113.2	121.4	127.2	134.4
77.5°	77.1	80.4	85.3	90.1	96.8
80°	51.5	53.0	57.3	58.3	63.6
82.5°	31.3	32.3	33.2	33.7	35.6
85°	16.9	16.9	16.9	15.9	15.9
87.5°	9.6	9.6	8.2	6.7	4.8
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)