

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: P555362

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-93-85-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: P555362
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

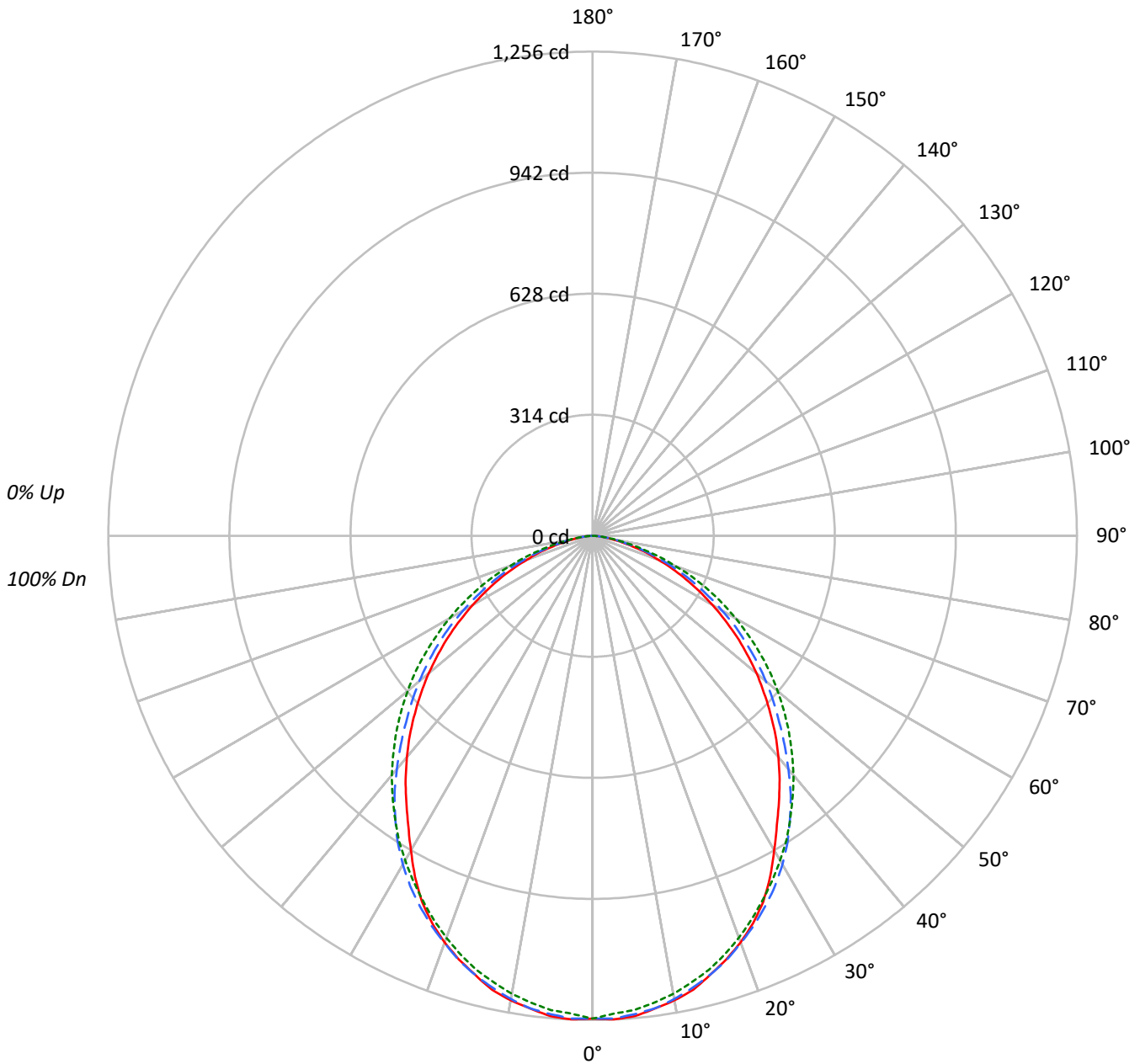
Lumens per Lamp: N/A
Luminaire Lumens: 2896.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6740	6740	6740
5°	6759	6730	6673
10°	6687	6668	6592
15°	6568	6568	6493
20°	6429	6438	6355
25°	6217	6295	6194
30°	5855	6118	6043
35°	5532	5864	5874
40°	5264	5547	5693
45°	4963	5211	5479
50°	4645	4911	5246
55°	4284	4569	4962
60°	3859	4169	4614
65°	3407	3707	4197
70°	2839	3157	3566
75°	2231	2522	2791
80°	1596	1776	1968
85°	1037	1037	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	4.1
10°-20°	331.3	11.4
20°-30°	484.1	16.7
30°-40°	549.5	19.0
40°-50°	530.5	18.3
50°-60°	437.6	15.1
60°-70°	291.4	10.1
70°-80°	130.4	4.5
80°-90°	23.3	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°	933.3	32.2
0°-40°	1482.8	51.2
0°-60°	2450.9	84.6
0°-90°	2896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1251	1250	1246	1239	1235	118
15°	1179	1182	1179	1174	1165	332
25°	1047	1055	1060	1052	1043	479
35°	842	854	892	897	894	528
45°	652	663	685	716	720	503
55°	457	464	487	514	529	408
65°	268	275	291	312	330	265
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°	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1255.8	1256.3	1253.4	1245.7	1240.9
5°	1251.0	1250.5	1245.7	1239.0	1235.1
7.5°	1237.0	1238.0	1236.6	1226.9	1221.7
10°	1223.6	1224.1	1220.2	1212.5	1206.3
12.5°	1206.3	1205.8	1200.5	1196.6	1186.5
15°	1178.8	1181.7	1178.8	1173.5	1165.4
17.5°	1152.4	1152.4	1154.3	1145.1	1138.9
20°	1122.5	1124.0	1124.0	1116.8	1109.5
22.5°	1087.9	1092.2	1093.7	1086.0	1077.3
25°	1047.0	1055.2	1060.0	1052.3	1043.1
27.5°	997.4	1009.9	1024.4	1018.6	1008.5
30°	942.1	960.4	984.4	979.6	972.4
32.5°	889.7	907.9	941.1	939.2	935.4
35°	842.0	853.6	892.5	897.4	894.0
37.5°	796.8	807.4	843.9	855.0	852.1
40°	749.2	760.7	789.6	809.3	810.3
42.5°	702.0	713.1	736.6	765.0	765.0
45°	652.0	663.0	684.7	716.0	719.8
47.5°	602.9	614.4	635.6	666.9	673.1
50°	554.8	565.4	586.5	616.8	626.5
52.5°	504.7	516.3	537.0	564.9	578.8
55°	456.6	464.3	486.9	513.9	528.8
57.5°	406.6	413.8	439.3	462.4	477.8
60°	358.5	367.6	387.3	410.9	428.7
62.5°	312.3	321.9	338.7	359.4	379.6
65°	267.5	274.7	291.1	311.8	329.6
67.5°	224.2	230.5	246.8	261.3	280.0
70°	180.4	188.6	200.6	214.6	226.6
72.5°	145.3	148.7	158.8	168.9	181.4
75°	107.3	113.1	121.3	127.0	134.2
77.5°	77.0	80.4	85.2	90.0	96.7
80°	51.5	52.9	57.3	58.2	63.5
82.5°	31.3	32.2	33.2	33.7	35.6
85°	16.8	16.8	16.8	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)