

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: P555139

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-81-85-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: P555139
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-30-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

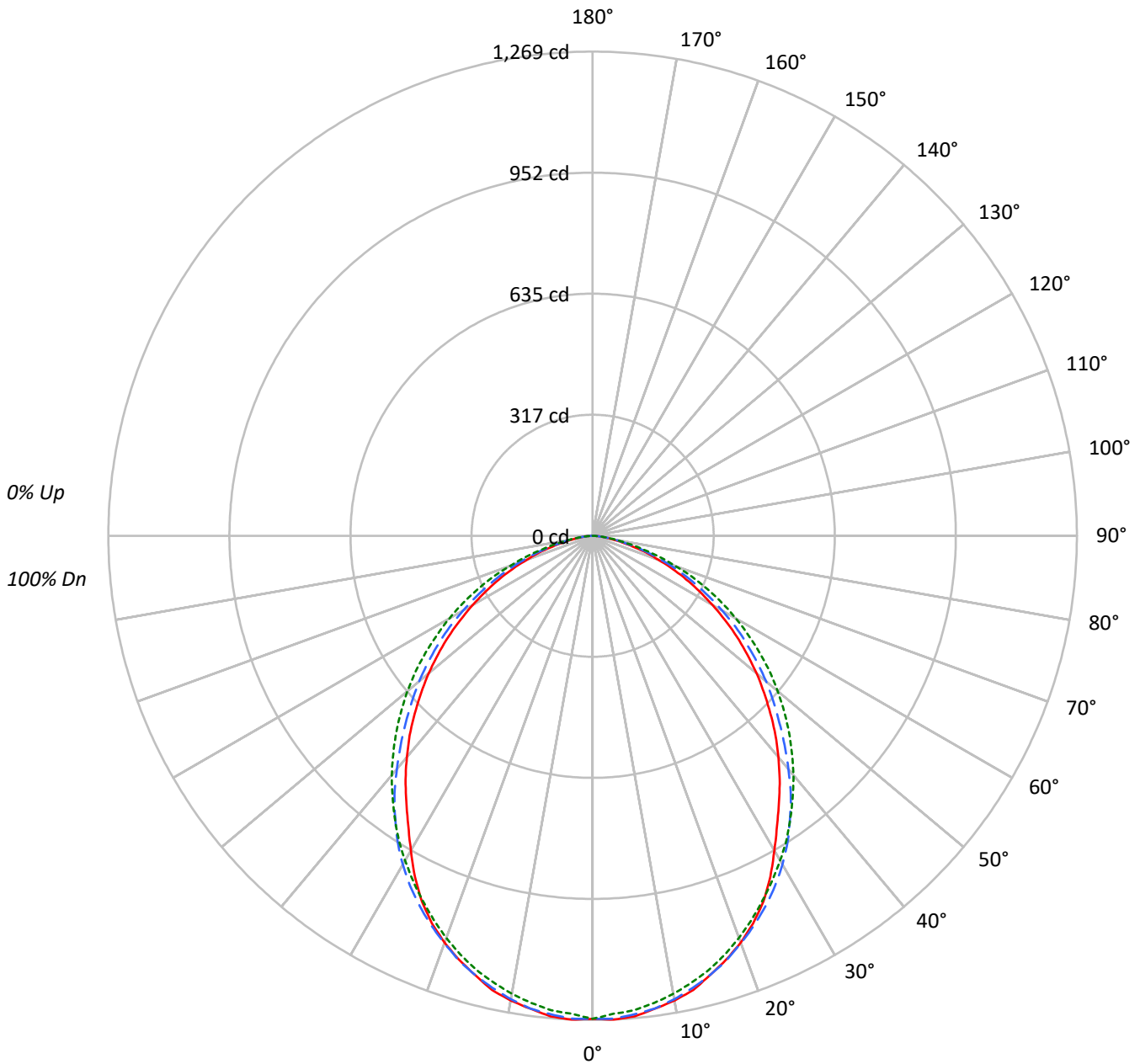
Lumens per Lamp: N/A
Luminaire Lumens: 2927.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6813	6813	6813
5°	6831	6802	6744
10°	6759	6740	6663
15°	6638	6638	6562
20°	6498	6506	6423
25°	6284	6362	6261
30°	5917	6183	6108
35°	5591	5927	5937
40°	5320	5606	5753
45°	5015	5267	5537
50°	4695	4963	5302
55°	4330	4617	5014
60°	3900	4214	4664
65°	3443	3747	4242
70°	2870	3191	3603
75°	2254	2547	2822
80°	1612	1795	1990
85°	1050	1050	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	4.1
10°-20°	334.8	11.4
20°-30°	489.3	16.7
30°-40°	555.4	19.0
40°-50°	536.1	18.3
50°-60°	442.3	15.1
60°-70°	294.5	10.1
70°-80°	131.8	4.5
80°-90°	23.6	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°	943.3	32.2
0°-40°	1498.7	51.2
0°-60°	2477.1	84.6
0°-90°	2927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1264	1264	1259	1252	1248	120
15°	1191	1194	1191	1186	1178	336
25°	1058	1066	1071	1064	1054	485
35°	851	863	902	907	904	533
45°	659	670	692	724	728	508
55°	462	469	492	519	534	412
65°	270	278	294	315	333	268
75°	108	114	122	128	136	119
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°	1265.9	1265.9	1265.9	1265.9	1265.9
2.5°	1269.3	1269.7	1266.8	1259.0	1254.2
5°	1264.4	1263.9	1259.0	1252.2	1248.3
7.5°	1250.3	1251.3	1249.8	1240.1	1234.7
10°	1236.7	1237.2	1233.3	1225.5	1219.2
12.5°	1219.2	1218.7	1213.3	1209.4	1199.2
15°	1191.4	1194.4	1191.4	1186.1	1177.8
17.5°	1164.7	1164.7	1166.6	1157.4	1151.1
20°	1134.5	1136.0	1136.0	1128.7	1121.4
22.5°	1099.5	1103.9	1105.4	1097.6	1088.8
25°	1058.2	1066.5	1071.3	1063.5	1054.3
27.5°	1008.1	1020.8	1035.3	1029.5	1019.3
30°	952.2	970.7	995.0	990.1	982.8
32.5°	899.2	917.7	951.2	949.3	945.4
35°	851.0	862.7	902.1	907.0	903.6
37.5°	805.3	816.0	853.0	864.2	861.2
40°	757.2	768.8	798.0	818.0	818.9
42.5°	709.5	720.7	744.5	773.2	773.2
45°	658.9	670.1	692.0	723.6	727.5
47.5°	609.3	621.0	642.4	674.0	680.3
50°	560.7	571.4	592.8	623.4	633.2
52.5°	510.1	521.8	542.7	570.9	585.0
55°	461.5	469.3	492.1	519.4	534.4
57.5°	410.9	418.2	444.0	467.3	482.9
60°	362.3	371.5	391.5	415.3	433.3
62.5°	315.6	325.3	342.4	363.3	383.7
65°	270.4	277.7	294.2	315.1	333.1
67.5°	226.6	232.9	249.5	264.1	283.0
70°	182.4	190.6	202.8	216.9	229.0
72.5°	146.9	150.3	160.5	170.7	183.3
75°	108.4	114.3	122.5	128.4	135.7
77.5°	77.8	81.2	86.1	90.9	97.7
80°	52.0	53.5	57.9	58.8	64.2
82.5°	31.6	32.6	33.6	34.0	36.0
85°	17.0	17.0	17.0	16.0	16.0
87.5°	9.7	9.7	8.3	6.8	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)