

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: P555209

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555209
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-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

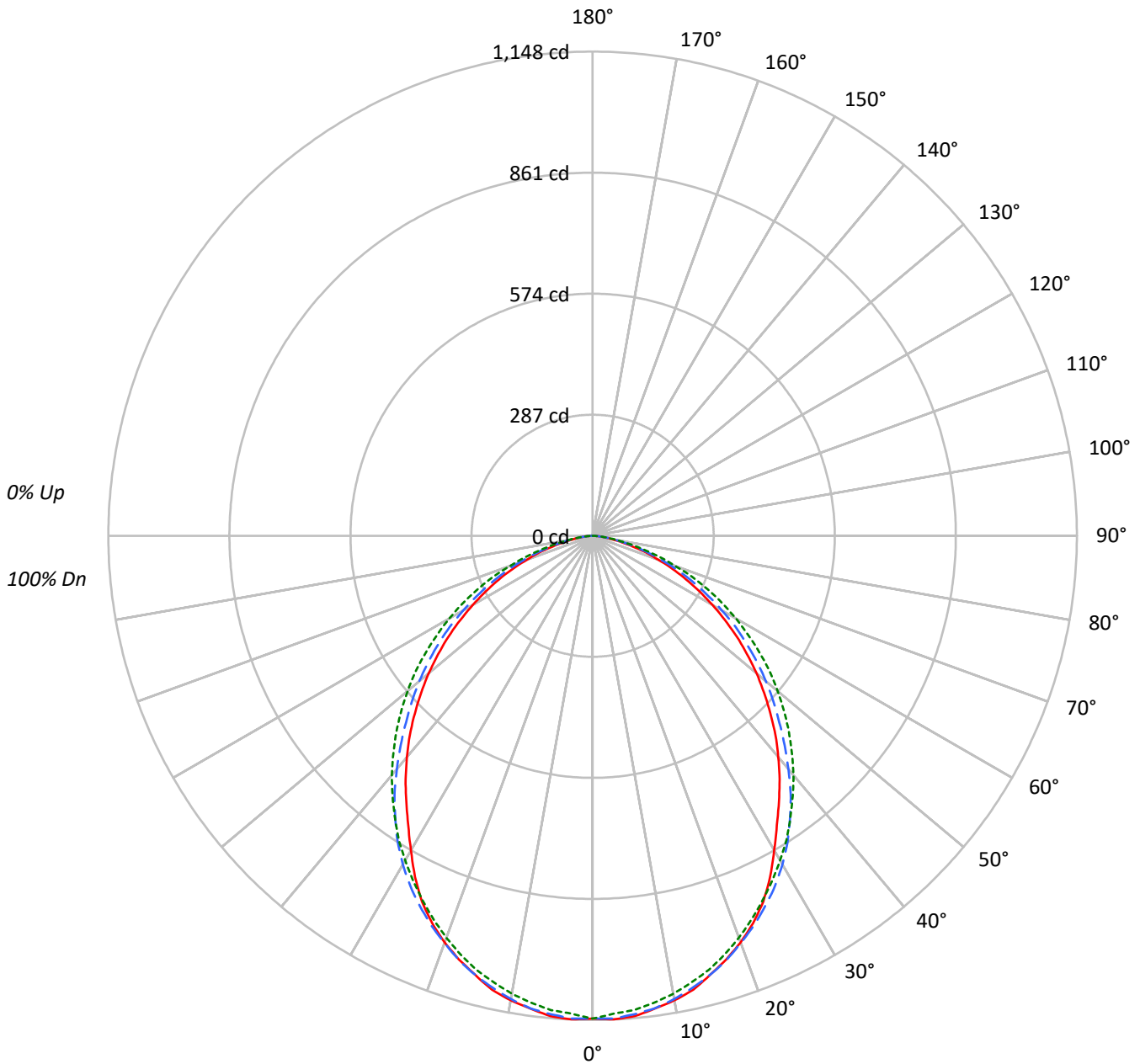
Lumens per Lamp: N/A
Luminaire Lumens: 2647.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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					20					
RC	80					70					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°	6161	6161	6161
5°	6177	6151	6099
10°	6112	6095	6025
15°	6004	6004	5935
20°	5876	5884	5808
25°	5683	5753	5662
30°	5351	5592	5523
35°	5056	5360	5368
40°	4810	5070	5203
45°	4536	4763	5007
50°	4246	4489	4794
55°	3917	4176	4535
60°	3526	3810	4217
65°	3114	3389	3837
70°	2595	2886	3259
75°	2040	2304	2551
80°	1460	1621	1801
85°	951	951	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	4.1
10°-20°	302.8	11.4
20°-30°	442.5	16.7
30°-40°	502.3	19.0
40°-50°	484.9	18.3
50°-60°	400.0	15.1
60°-70°	266.3	10.1
70°-80°	119.2	4.5
80°-90°	21.3	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°	853.0	32.2
0°-40°	1355.3	51.2
0°-60°	2240.1	84.6
0°-90°	2647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1143	1143	1139	1132	1129	108
15°	1078	1080	1078	1073	1065	304
25°	957	964	969	962	954	438
35°	770	780	816	820	817	482
45°	596	606	626	654	658	460
55°	417	424	445	470	483	372
65°	244	251	266	285	301	242
75°	98	103	111	116	123	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.8	1144.8	1144.8	1144.8	1144.8
2.5°	1147.8	1148.3	1145.6	1138.6	1134.2
5°	1143.4	1143.0	1138.6	1132.4	1128.9
7.5°	1130.7	1131.6	1130.2	1121.5	1116.6
10°	1118.4	1118.8	1115.3	1108.3	1102.5
12.5°	1102.5	1102.1	1097.3	1093.7	1084.5
15°	1077.5	1080.1	1077.5	1072.6	1065.2
17.5°	1053.3	1053.3	1055.0	1046.7	1041.0
20°	1026.0	1027.3	1027.3	1020.7	1014.1
22.5°	994.4	998.3	999.6	992.6	984.7
25°	957.0	964.4	968.8	961.8	953.5
27.5°	911.7	923.1	936.3	931.0	921.8
30°	861.1	877.8	899.8	895.4	888.8
32.5°	813.2	829.9	860.2	858.5	854.9
35°	769.6	780.2	815.8	820.2	817.1
37.5°	728.3	738.0	771.4	781.5	778.9
40°	684.7	695.3	721.7	739.7	740.6
42.5°	641.6	651.8	673.3	699.3	699.3
45°	595.9	606.0	625.8	654.4	657.9
47.5°	551.1	561.6	581.0	609.5	615.3
50°	507.1	516.7	536.1	563.8	572.6
52.5°	461.3	471.9	490.8	516.3	529.1
55°	417.4	424.4	445.1	469.7	483.3
57.5°	371.6	378.2	401.5	422.6	436.7
60°	327.6	336.0	354.0	375.6	391.8
62.5°	285.4	294.2	309.6	328.5	347.0
65°	244.5	251.1	266.1	285.0	301.3
67.5°	204.9	210.7	225.6	238.8	256.0
70°	164.9	172.4	183.4	196.1	207.1
72.5°	132.8	135.9	145.1	154.4	165.8
75°	98.1	103.3	110.8	116.1	122.7
77.5°	70.4	73.4	77.8	82.2	88.4
80°	47.1	48.4	52.3	53.2	58.1
82.5°	28.6	29.5	30.3	30.8	32.5
85°	15.4	15.4	15.4	14.5	14.5
87.5°	8.8	8.8	7.5	6.2	4.4
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)