

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: P554632

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-88-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: P554632
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-LD4-2HI-30-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

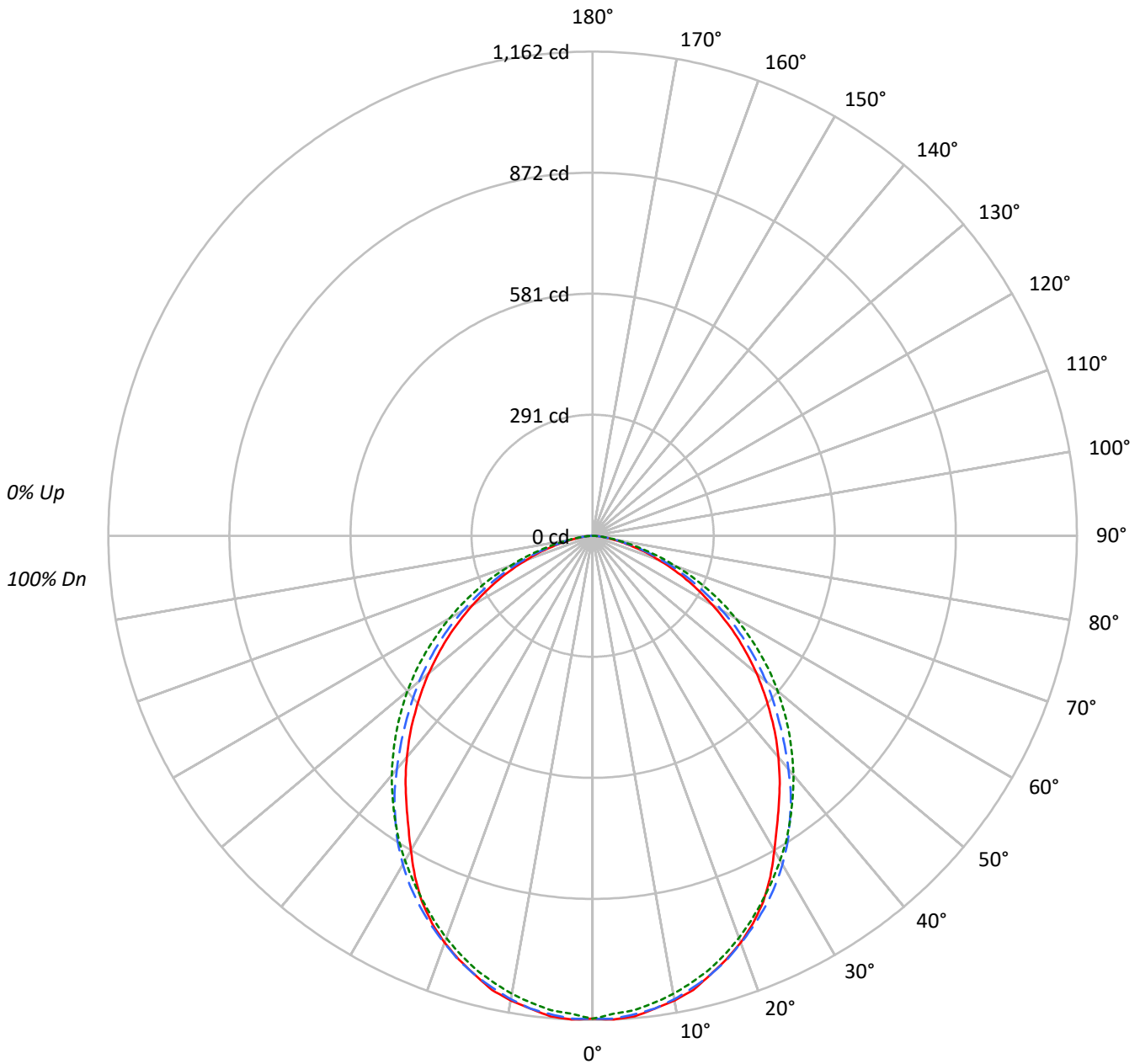
Lumens per Lamp: N/A
Luminaire Lumens: 2680.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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				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				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6238	6238	6238
5°	6254	6228	6175
10°	6188	6171	6101
15°	6078	6078	6009
20°	5950	5957	5881
25°	5754	5825	5732
30°	5418	5661	5592
35°	5119	5427	5435
40°	4871	5134	5268
45°	4592	4822	5070
50°	4299	4545	4854
55°	3965	4228	4591
60°	3570	3858	4270
65°	3153	3431	3884
70°	2628	2922	3300
75°	2065	2333	2583
80°	1475	1643	1822
85°	963	963	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	4.1
10°-20°	306.6	11.4
20°-30°	448.0	16.7
30°-40°	508.5	19.0
40°-50°	490.9	18.3
50°-60°	405.0	15.1
60°-70°	269.7	10.1
70°-80°	120.7	4.5
80°-90°	21.6	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°	863.7	32.2
0°-40°	1372.2	51.2
0°-60°	2268.1	84.6
0°-90°	2680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1158	1157	1153	1147	1143	110
15°	1091	1094	1091	1086	1078	308
25°	969	976	981	974	965	444
35°	779	790	826	830	827	488
45°	603	614	634	663	666	465
55°	423	430	451	476	489	377
65°	248	254	269	288	305	245
75°	99	105	112	118	124	109
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.0	1159.0	1159.0	1159.0	1159.0
2.5°	1162.1	1162.6	1159.9	1152.8	1148.3
5°	1157.7	1157.2	1152.8	1146.6	1143.0
7.5°	1144.8	1145.7	1144.3	1135.4	1130.5
10°	1132.3	1132.8	1129.2	1122.1	1116.3
12.5°	1116.3	1115.8	1110.9	1107.4	1098.0
15°	1090.9	1093.6	1090.9	1086.0	1078.4
17.5°	1066.4	1066.4	1068.2	1059.7	1053.9
20°	1038.8	1040.1	1040.1	1033.5	1026.8
22.5°	1006.7	1010.8	1012.1	1005.0	997.0
25°	968.9	976.5	980.9	973.8	965.3
27.5°	923.0	934.6	948.0	942.6	933.3
30°	871.8	888.8	911.0	906.6	899.9
32.5°	823.3	840.2	870.9	869.2	865.6
35°	779.2	789.9	826.0	830.4	827.3
37.5°	737.4	747.2	781.0	791.2	788.6
40°	693.3	704.0	730.7	748.9	749.8
42.5°	649.6	659.9	681.7	708.0	708.0
45°	603.3	613.6	633.6	662.6	666.1
47.5°	557.9	568.6	588.2	617.1	622.9
50°	513.4	523.2	542.8	570.8	579.7
52.5°	467.1	477.8	496.9	522.7	535.7
55°	422.6	429.7	450.6	475.5	489.3
57.5°	376.3	382.9	406.5	427.9	442.2
60°	331.7	340.2	358.4	380.3	396.7
62.5°	289.0	297.9	313.5	332.6	351.3
65°	247.6	254.2	269.4	288.5	305.0
67.5°	207.5	213.3	228.4	241.8	259.1
70°	167.0	174.5	185.7	198.6	209.7
72.5°	134.5	137.6	146.9	156.3	167.9
75°	99.3	104.6	112.2	117.6	124.2
77.5°	71.2	74.4	78.8	83.3	89.5
80°	47.6	49.0	53.0	53.9	58.8
82.5°	28.9	29.8	30.7	31.2	32.9
85°	15.6	15.6	15.6	14.7	14.7
87.5°	8.9	8.9	7.6	6.2	4.5
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)