

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: P555673

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-88-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: P555673
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

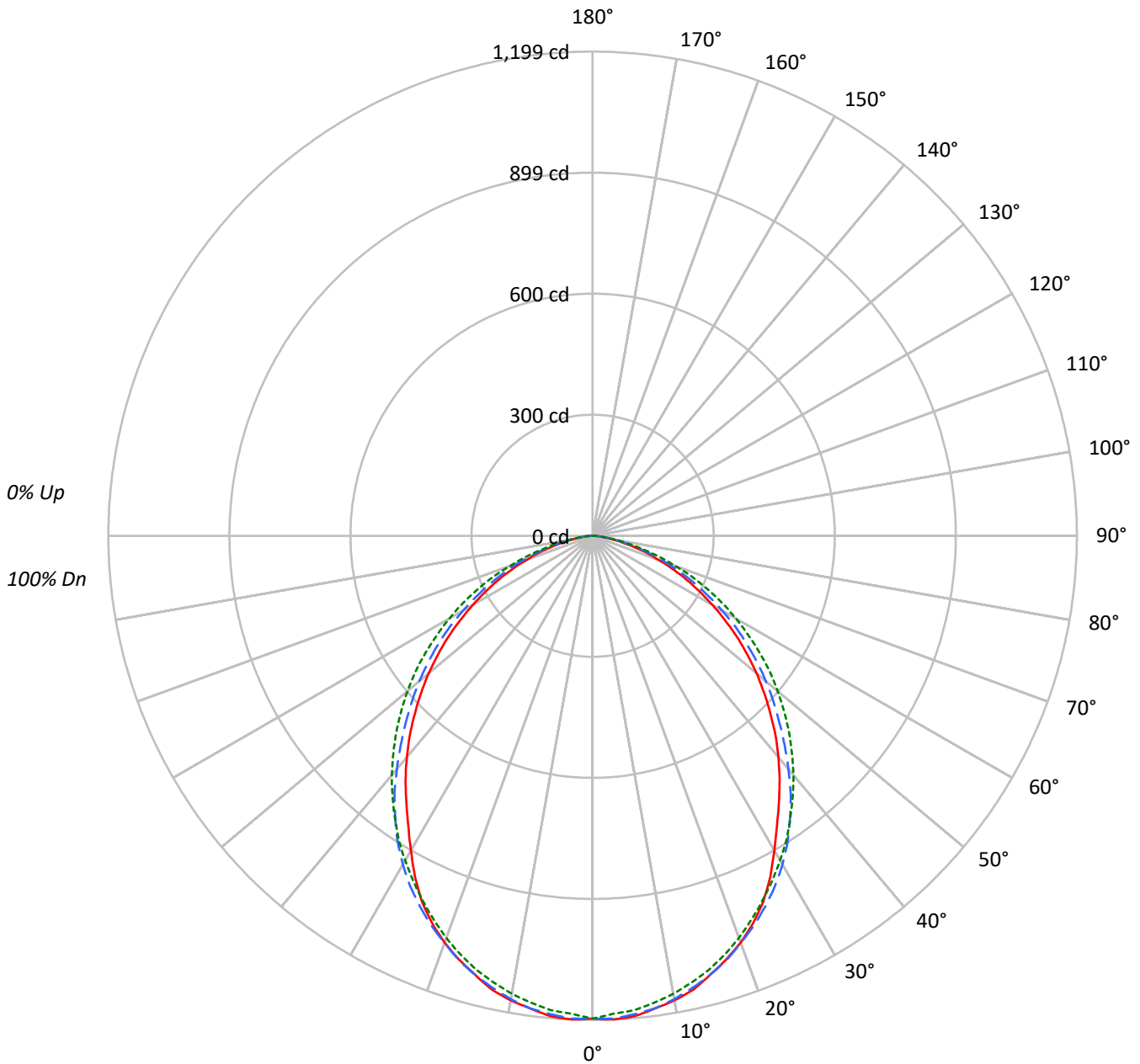
Lumens per Lamp: N/A
Luminaire Lumens: 2765.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6436	6436	6436
5°	6453	6426	6371
10°	6384	6367	6294
15°	6271	6271	6199
20°	6139	6146	6068
25°	5936	6010	5915
30°	5590	5841	5770
35°	5282	5599	5608
40°	5025	5297	5435
45°	4738	4975	5230
50°	4435	4689	5008
55°	4091	4362	4738
60°	3683	3980	4406
65°	3252	3539	4008
70°	2711	3015	3405
75°	2129	2408	2666
80°	1525	1695	1878
85°	994	994	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	4.1
10°-20°	316.3	11.4
20°-30°	462.2	16.7
30°-40°	524.7	19.0
40°-50°	506.5	18.3
50°-60°	417.8	15.1
60°-70°	278.2	10.1
70°-80°	124.5	4.5
80°-90°	22.3	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°	891.1	32.2
0°-40°	1415.7	51.2
0°-60°	2340.0	84.6
0°-90°	2765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1194	1194	1189	1183	1179	113
15°	1126	1128	1126	1120	1113	317
25°	1000	1007	1012	1005	996	458
35°	804	815	852	857	854	504
45°	622	633	654	684	687	480
55°	436	443	465	491	505	389
65°	255	262	278	298	315	253
75°	102	108	116	121	128	112
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1195.8	1195.8	1195.8	1195.8	1195.8
2.5°	1199.0	1199.5	1196.7	1189.4	1184.8
5°	1194.4	1194.0	1189.4	1182.9	1179.3
7.5°	1181.1	1182.0	1180.6	1171.4	1166.4
10°	1168.2	1168.7	1165.0	1157.7	1151.7
12.5°	1151.7	1151.2	1146.2	1142.5	1132.9
15°	1125.5	1128.3	1125.5	1120.5	1112.6
17.5°	1100.2	1100.2	1102.1	1093.3	1087.4
20°	1071.8	1073.1	1073.1	1066.2	1059.4
22.5°	1038.7	1042.8	1044.2	1036.8	1028.6
25°	999.6	1007.4	1012.0	1004.7	996.0
27.5°	952.3	964.3	978.0	972.5	962.9
30°	899.5	916.9	939.9	935.3	928.4
32.5°	849.4	866.9	898.6	896.7	893.1
35°	803.9	815.0	852.2	856.8	853.5
37.5°	760.7	770.9	805.8	816.3	813.6
40°	715.3	726.3	753.9	772.7	773.6
42.5°	670.2	680.8	703.3	730.4	730.4
45°	622.5	633.0	653.7	683.6	687.2
47.5°	575.6	586.6	606.9	636.7	642.7
50°	529.7	539.8	560.0	588.9	598.1
52.5°	481.9	492.9	512.7	539.3	552.6
55°	436.0	443.3	464.9	490.6	504.9
57.5°	388.2	395.1	419.4	441.5	456.2
60°	342.2	351.0	369.8	392.3	409.3
62.5°	298.1	307.3	323.4	343.2	362.5
65°	255.4	262.3	277.9	297.7	314.7
67.5°	214.1	220.0	235.7	249.4	267.4
70°	172.3	180.1	191.6	204.9	216.4
72.5°	138.7	142.0	151.6	161.2	173.2
75°	102.4	108.0	115.8	121.3	128.2
77.5°	73.5	76.7	81.3	85.9	92.3
80°	49.2	50.5	54.7	55.6	60.6
82.5°	29.9	30.8	31.7	32.2	34.0
85°	16.1	16.1	16.1	15.2	15.2
87.5°	9.2	9.2	7.8	6.4	4.6
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)