

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: P555738

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-94-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: P555738
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-35-UNV-82-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

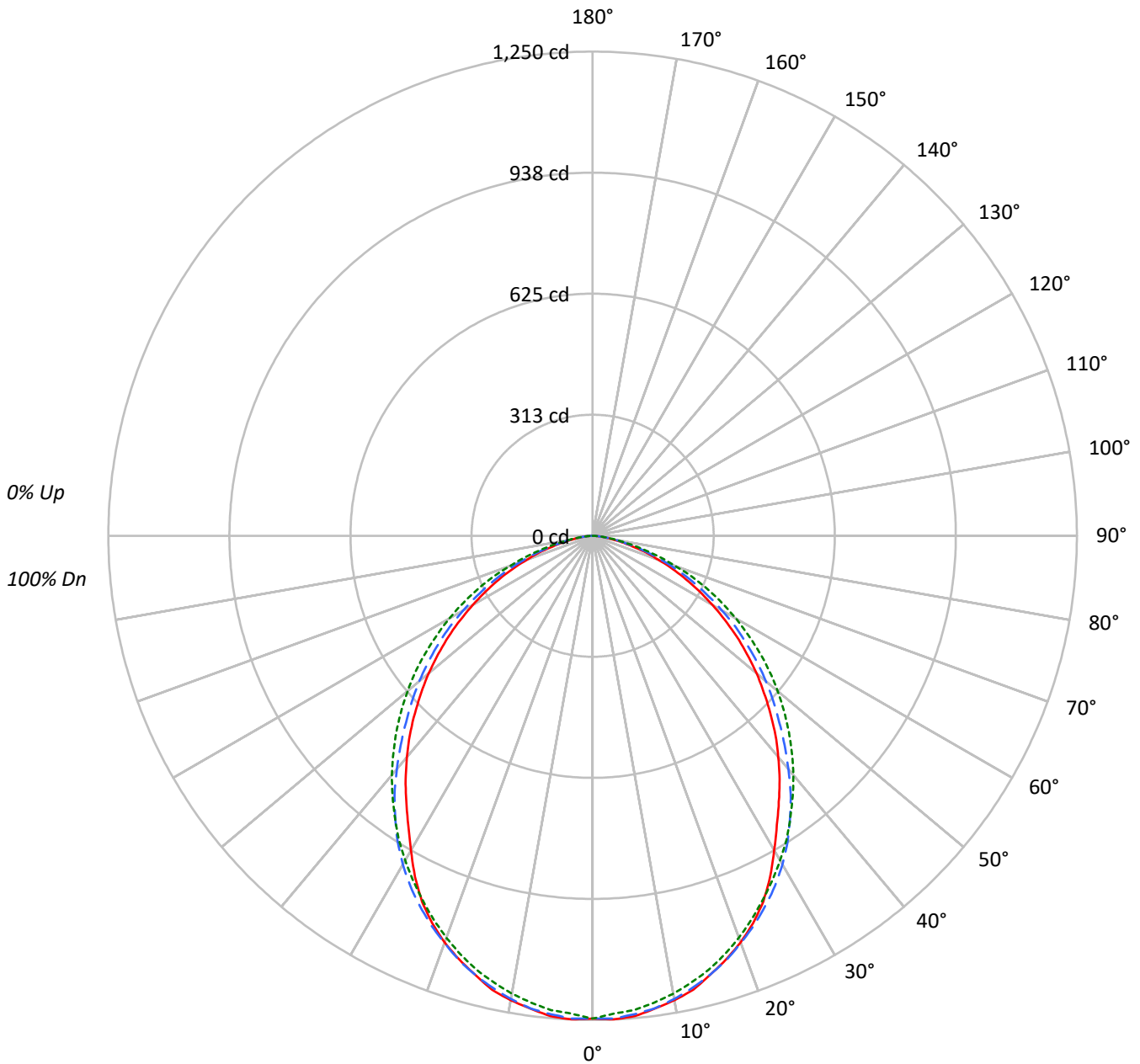
Lumens per Lamp: N/A
Luminaire Lumens: 2882.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	6708	6708	6708
5°	6726	6697	6641
10°	6655	6636	6560
15°	6536	6536	6462
20°	6398	6406	6324
25°	6187	6264	6165
30°	5826	6088	6014
35°	5505	5836	5845
40°	5238	5521	5665
45°	4938	5186	5452
50°	4623	4887	5220
55°	4264	4547	4937
60°	3839	4149	4592
65°	3390	3689	4177
70°	2826	3142	3548
75°	2221	2510	2778
80°	1587	1767	1959
85°	1037	1037	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	4.1
10°-20°	329.7	11.4
20°-30°	481.8	16.7
30°-40°	546.8	19.0
40°-50°	527.9	18.3
50°-60°	435.5	15.1
60°-70°	290.0	10.1
70°-80°	129.8	4.5
80°-90°	23.2	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°	928.8	32.2
0°-40°	1475.6	51.2
0°-60°	2439.0	84.6
0°-90°	2882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1245	1244	1240	1233	1229	118
15°	1173	1176	1173	1168	1160	331
25°	1042	1050	1055	1047	1038	477
35°	838	849	888	893	890	525
45°	649	660	681	712	716	501
55°	454	462	485	511	526	406
65°	266	273	290	310	328	264
75°	107	112	121	126	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°	1246.4	1246.4	1246.4	1246.4	1246.4
2.5°	1249.7	1250.2	1247.3	1239.7	1234.9
5°	1245.0	1244.5	1239.7	1233.0	1229.2
7.5°	1231.1	1232.0	1230.6	1221.0	1215.7
10°	1217.7	1218.1	1214.3	1206.6	1200.4
12.5°	1200.4	1199.9	1194.7	1190.8	1180.8
15°	1173.1	1176.0	1173.1	1167.9	1159.7
17.5°	1146.8	1146.8	1148.7	1139.6	1133.4
20°	1117.1	1118.5	1118.5	1111.4	1104.2
22.5°	1082.6	1086.9	1088.4	1080.7	1072.1
25°	1041.9	1050.1	1054.9	1047.2	1038.1
27.5°	992.6	1005.1	1019.4	1013.7	1003.6
30°	937.5	955.7	979.7	974.9	967.7
32.5°	885.4	903.5	936.6	934.7	930.8
35°	837.9	849.4	888.2	893.0	889.7
37.5°	792.9	803.5	839.9	850.9	848.0
40°	745.5	757.0	785.8	805.4	806.3
42.5°	698.6	709.6	733.1	761.3	761.3
45°	648.8	659.8	681.4	712.5	716.3
47.5°	600.0	611.5	632.5	663.7	669.9
50°	552.1	562.6	583.7	613.9	623.4
52.5°	502.3	513.8	534.4	562.1	576.0
55°	454.4	462.1	484.6	511.4	526.2
57.5°	404.6	411.8	437.2	460.2	475.5
60°	356.7	365.8	385.5	408.9	426.6
62.5°	310.8	320.3	337.1	357.7	377.8
65°	266.2	273.4	289.7	310.3	328.0
67.5°	223.1	229.4	245.6	260.0	278.7
70°	179.6	187.7	199.7	213.6	225.5
72.5°	144.6	148.0	158.0	168.1	180.5
75°	106.8	112.5	120.7	126.4	133.6
77.5°	76.6	80.0	84.8	89.5	96.2
80°	51.2	52.7	57.0	57.9	63.2
82.5°	31.1	32.1	33.0	33.5	35.4
85°	16.8	16.8	16.8	15.8	15.8
87.5°	9.6	9.6	8.1	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)