

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: P555252

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-86-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: P555252
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-40-UNV-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

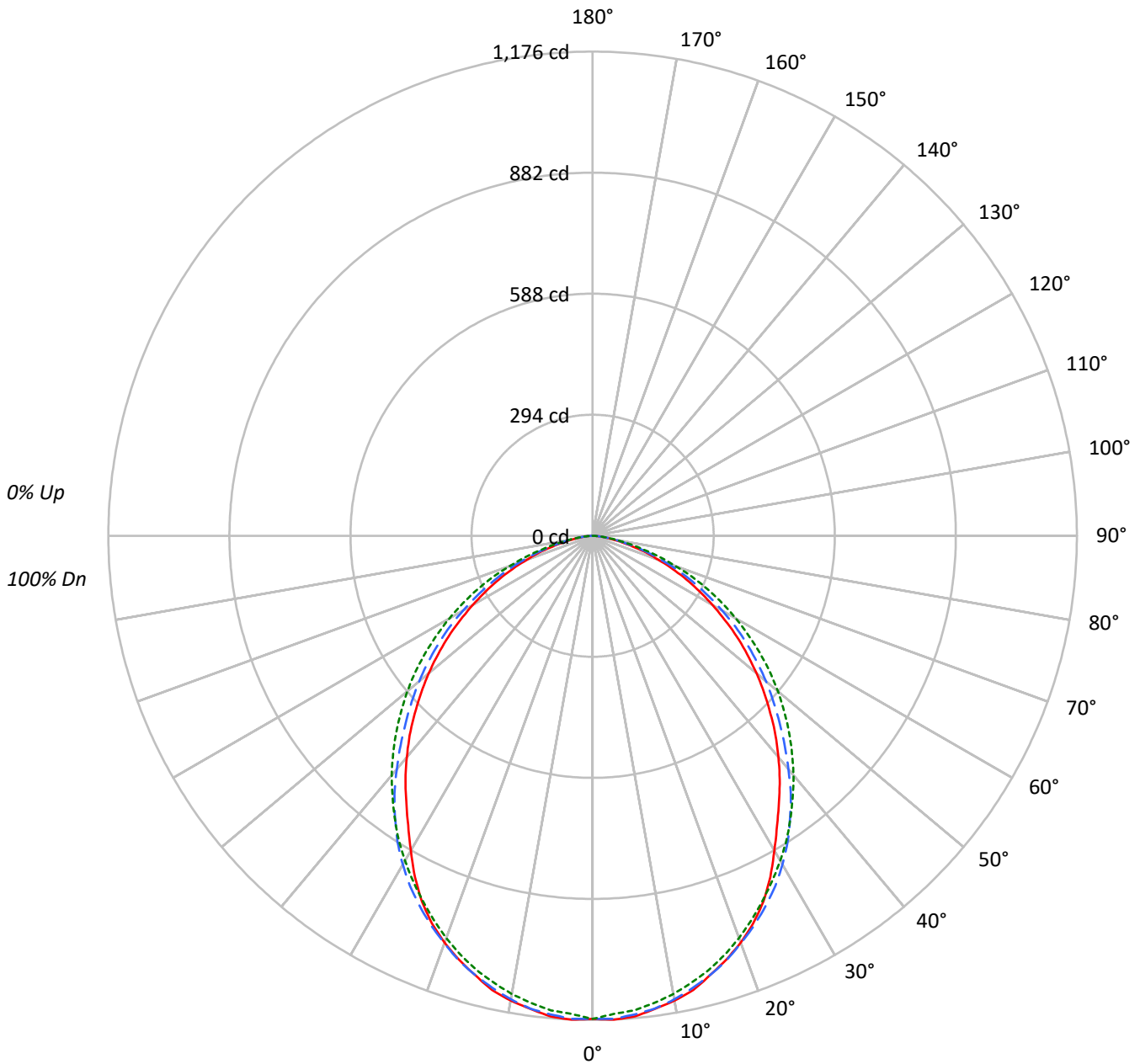
Lumens per Lamp: N/A
Luminaire Lumens: 2713.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6315	6315	6315
5°	6332	6305	6251
10°	6265	6247	6175
15°	6153	6153	6083
20°	6023	6031	5953
25°	5824	5897	5803
30°	5485	5731	5661
35°	5183	5493	5503
40°	4931	5197	5333
45°	4649	4882	5132
50°	4351	4601	4914
55°	4014	4281	4648
60°	3615	3906	4323
65°	3191	3473	3933
70°	2659	2958	3341
75°	2090	2362	2616
80°	1494	1661	1844
85°	976	976	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	4.1
10°-20°	310.3	11.4
20°-30°	453.5	16.7
30°-40°	514.8	19.0
40°-50°	496.9	18.3
50°-60°	410.0	15.1
60°-70°	273.0	10.1
70°-80°	122.2	4.5
80°-90°	21.9	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°	874.3	32.2
0°-40°	1389.1	51.2
0°-60°	2296.0	84.6
0°-90°	2713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1172	1172	1167	1161	1157	111
15°	1104	1107	1104	1099	1092	311
25°	981	988	993	986	977	449
35°	789	800	836	841	838	494
45°	611	621	641	671	674	471
55°	428	435	456	481	495	382
65°	251	257	273	292	309	248
75°	100	106	114	119	126	110
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°	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1176.5	1176.9	1174.2	1167.0	1162.5
5°	1172.0	1171.5	1167.0	1160.7	1157.1
7.5°	1158.9	1159.8	1158.4	1149.4	1144.5
10°	1146.3	1146.7	1143.1	1135.9	1130.0
12.5°	1130.0	1129.6	1124.6	1121.0	1111.5
15°	1104.3	1107.0	1104.3	1099.4	1091.7
17.5°	1079.5	1079.5	1081.3	1072.8	1066.9
20°	1051.6	1053.0	1053.0	1046.2	1039.4
22.5°	1019.1	1023.2	1024.6	1017.3	1009.2
25°	980.8	988.5	993.0	985.8	977.2
27.5°	934.4	946.1	959.6	954.2	944.8
30°	882.6	899.7	922.2	917.7	911.0
32.5°	833.4	850.6	881.7	879.9	876.3
35°	788.8	799.6	836.1	840.6	837.5
37.5°	746.4	756.4	790.6	801.0	798.3
40°	701.8	712.6	739.7	758.2	759.1
42.5°	657.6	668.0	690.1	716.7	716.7
45°	610.8	621.1	641.4	670.7	674.3
47.5°	564.8	575.6	595.4	624.7	630.6
50°	519.7	529.6	549.5	577.9	586.9
52.5°	472.8	483.7	503.0	529.2	542.3
55°	427.8	435.0	456.2	481.4	495.4
57.5°	380.9	387.6	411.5	433.2	447.6
60°	335.8	344.4	362.9	384.9	401.6
62.5°	292.5	301.6	317.3	336.7	355.6
65°	250.6	257.4	272.7	292.1	308.8
67.5°	210.0	215.9	231.2	244.8	262.3
70°	169.0	176.7	188.0	201.0	212.3
72.5°	136.1	139.3	148.7	158.2	169.9
75°	100.5	105.9	113.6	119.0	125.8
77.5°	72.1	75.3	79.8	84.3	90.6
80°	48.2	49.6	53.6	54.5	59.5
82.5°	29.3	30.2	31.1	31.6	33.4
85°	15.8	15.8	15.8	14.9	14.9
87.5°	9.0	9.0	7.7	6.3	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)