

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: P555332

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-81-86-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: P555332
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-50-UNV-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

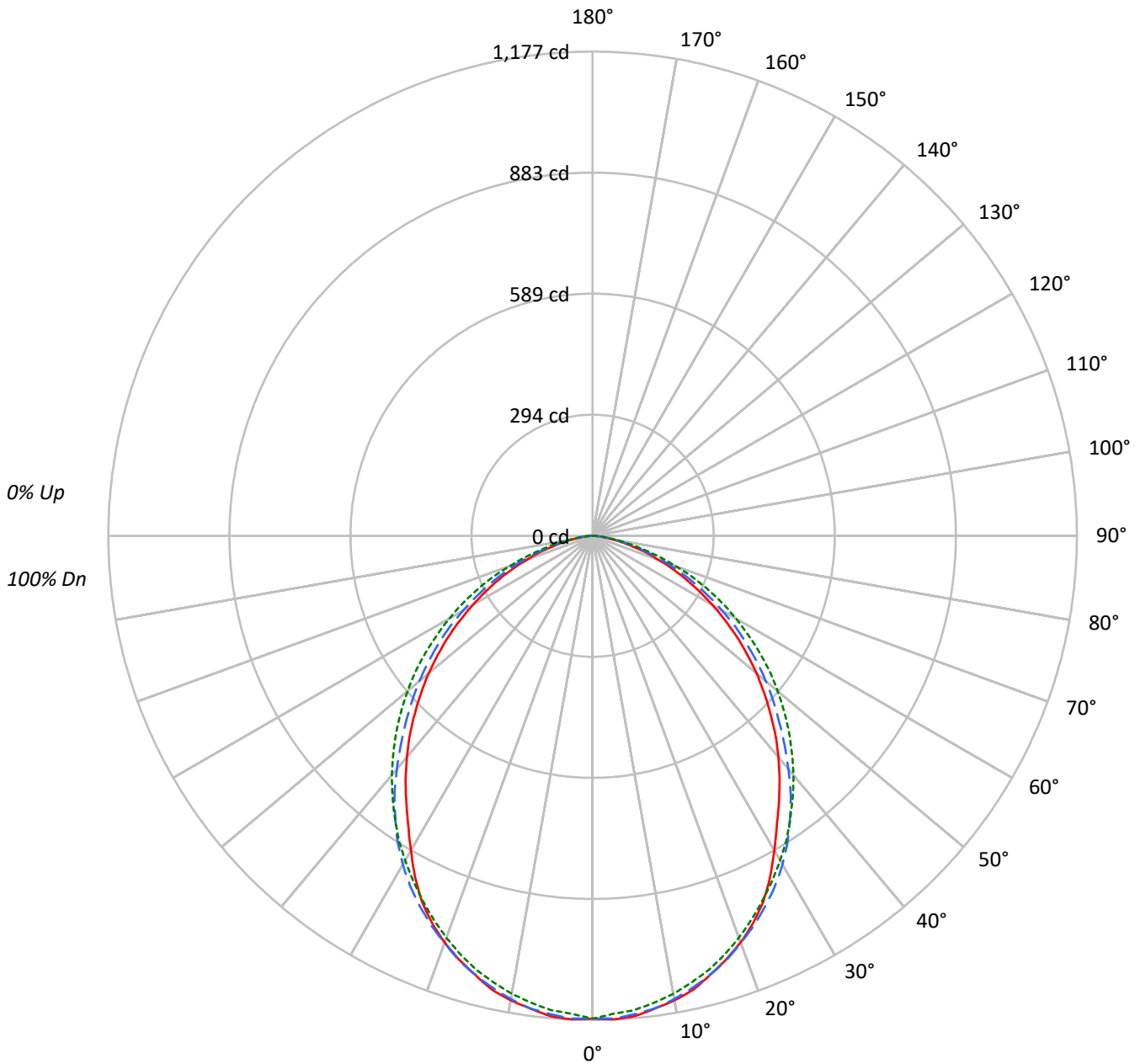
Lumens per Lamp: N/A
Luminaire Lumens: 2714.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P555332

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555332

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-86-EDD-90

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°	6317	6317	6317
5°	6334	6307	6253
10°	6267	6249	6178
15°	6155	6155	6085
20°	6025	6033	5955
25°	5827	5899	5805
30°	5487	5734	5663
35°	5185	5495	5504
40°	4933	5199	5335
45°	4650	4884	5135
50°	4353	4603	4916
55°	4015	4282	4650
60°	3616	3907	4325
65°	3193	3474	3934
70°	2661	2958	3342
75°	2092	2362	2616
80°	1494	1664	1844
85°	976	976	920



TEST NUMBER: P555332

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	4.1
10°-20°	310.5	11.4
20°-30°	453.7	16.7
30°-40°	515.0	19.0
40°-50°	497.1	18.3
50°-60°	410.1	15.1
60°-70°	273.1	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°	874.6	32.2
0°-40°	1389.6	51.2
0°-60°	2296.9	84.6
0°-90°	2714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1172	1172	1167	1161	1158	111
15°	1105	1108	1105	1100	1092	311
25°	981	989	993	986	978	449
35°	789	800	836	841	838	494
45°	611	621	642	671	675	471
55°	428	435	456	482	496	382
65°	251	258	273	292	309	249
75°	101	106	114	119	126	110
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



TEST NUMBER: P555332

CATALOG NUMBER: FUSL-12-2-LD4-2STD-50-UNV-81-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.7	1173.7	1173.7	1173.7	1173.7
2.5°	1176.9	1177.3	1174.6	1167.4	1162.9
5°	1172.4	1171.9	1167.4	1161.1	1157.5
7.5°	1159.3	1160.2	1158.9	1149.8	1144.9
10°	1146.7	1147.1	1143.5	1136.3	1130.4
12.5°	1130.4	1130.0	1125.0	1121.4	1112.0
15°	1104.7	1107.5	1104.7	1099.8	1092.1
17.5°	1079.9	1079.9	1081.7	1073.2	1067.3
20°	1052.0	1053.3	1053.3	1046.6	1039.8
22.5°	1019.5	1023.6	1024.9	1017.7	1009.6
25°	981.2	988.9	993.4	986.2	977.6
27.5°	934.7	946.5	960.0	954.6	945.1
30°	882.9	900.0	922.6	918.1	911.3
32.5°	833.7	850.9	882.0	880.2	876.6
35°	789.1	799.9	836.4	841.0	837.8
37.5°	746.7	756.6	790.9	801.3	798.6
40°	702.1	712.9	740.0	758.4	759.3
42.5°	657.9	668.3	690.4	717.0	717.0
45°	611.0	621.4	641.7	671.0	674.6
47.5°	565.0	575.8	595.7	625.0	630.8
50°	519.9	529.8	549.7	578.1	587.1
52.5°	473.0	483.8	503.2	529.4	542.5
55°	427.9	435.1	456.3	481.6	495.6
57.5°	381.0	387.8	411.7	433.3	447.8
60°	335.9	344.5	363.0	385.1	401.8
62.5°	292.6	301.7	317.4	336.8	355.8
65°	250.7	257.5	272.8	292.2	308.9
67.5°	210.1	216.0	231.3	244.8	262.4
70°	169.1	176.8	188.0	201.1	212.4
72.5°	136.2	139.3	148.8	158.3	170.0
75°	100.6	106.0	113.6	119.0	125.8
77.5°	72.1	75.3	79.8	84.3	90.6
80°	48.2	49.6	53.7	54.6	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)