

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: P555636

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-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: P555636
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-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

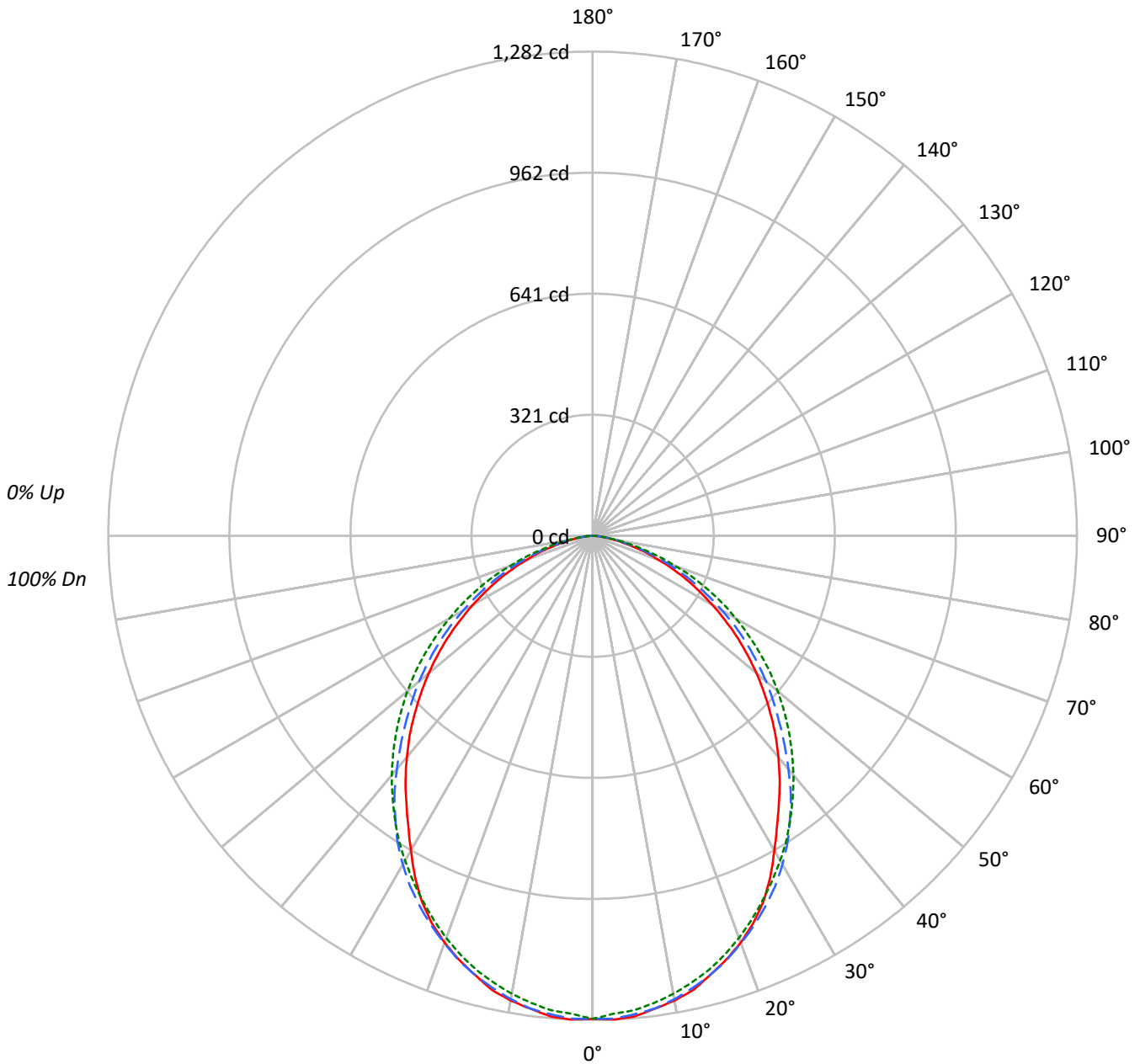
Lumens per Lamp: N/A
Luminaire Lumens: 2957.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555636

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-80-86-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555636

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-80-86-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°	6882	6882	6882
5°	6901	6871	6813
10°	6827	6809	6731
15°	6707	6707	6630
20°	6565	6573	6489
25°	6348	6427	6325
30°	5978	6247	6170
35°	5649	5987	5997
40°	5374	5664	5812
45°	5067	5321	5594
50°	4743	5014	5356
55°	4374	4665	5066
60°	3940	4257	4711
65°	3479	3785	4285
70°	2899	3224	3641
75°	2279	2574	2851
80°	1630	1813	2011
85°	1062	1062	1000



TEST NUMBER: P555636

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-80-86-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	4.1
10°-20°	338.3	11.4
20°-30°	494.3	16.7
30°-40°	561.1	19.0
40°-50°	541.6	18.3
50°-60°	446.8	15.1
60°-70°	297.5	10.1
70°-80°	133.1	4.5
80°-90°	23.8	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°	953.0	32.2
0°-40°	1514.0	51.2
0°-60°	2502.5	84.6
0°-90°	2957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1277	1277	1272	1265	1261	121
15°	1204	1207	1204	1198	1190	339
25°	1069	1077	1082	1074	1065	490
35°	860	872	911	916	913	539
45°	666	677	699	731	735	514
55°	466	474	497	525	540	416
65°	273	280	297	318	336	271
75°	110	116	124	130	137	120
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



TEST NUMBER: P555636

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-80-86-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.8	1278.8	1278.8	1278.8	1278.8
2.5°	1282.3	1282.8	1279.8	1271.9	1267.0
5°	1277.4	1276.9	1271.9	1265.1	1261.1
7.5°	1263.1	1264.1	1262.6	1252.8	1247.4
10°	1249.3	1249.8	1245.9	1238.0	1231.7
12.5°	1231.7	1231.2	1225.8	1221.8	1211.5
15°	1203.7	1206.6	1203.7	1198.3	1189.9
17.5°	1176.6	1176.6	1178.6	1169.3	1162.9
20°	1146.2	1147.7	1147.7	1140.3	1132.9
22.5°	1110.8	1115.2	1116.7	1108.8	1100.0
25°	1069.0	1077.4	1082.3	1074.4	1065.1
27.5°	1018.4	1031.2	1046.0	1040.1	1029.7
30°	961.9	980.6	1005.2	1000.3	992.9
32.5°	908.4	927.1	961.0	959.0	955.1
35°	859.8	871.5	911.3	916.3	912.8
37.5°	813.6	824.4	861.7	873.0	870.1
40°	764.9	776.7	806.2	826.3	827.3
42.5°	716.8	728.1	752.2	781.2	781.2
45°	665.7	677.0	699.1	731.0	735.0
47.5°	615.6	627.4	649.0	680.9	687.3
50°	566.5	577.3	598.9	629.8	639.7
52.5°	515.4	527.2	548.3	576.8	591.0
55°	466.2	474.1	497.2	524.7	539.9
57.5°	415.1	422.5	448.5	472.1	487.9
60°	366.0	375.3	395.5	419.6	437.7
62.5°	318.8	328.7	345.9	367.0	387.6
65°	273.2	280.5	297.2	318.4	336.5
67.5°	228.9	235.3	252.0	266.8	285.9
70°	184.2	192.6	204.9	219.1	231.4
72.5°	148.4	151.8	162.1	172.4	185.2
75°	109.6	115.5	123.8	129.7	137.1
77.5°	78.6	82.0	87.0	91.9	98.7
80°	52.6	54.0	58.5	59.4	64.9
82.5°	31.9	32.9	33.9	34.4	36.4
85°	17.2	17.2	17.2	16.2	16.2
87.5°	9.8	9.8	8.4	6.9	4.9
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)