

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: P555779

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-81-85-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: P555779
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-40-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187
CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

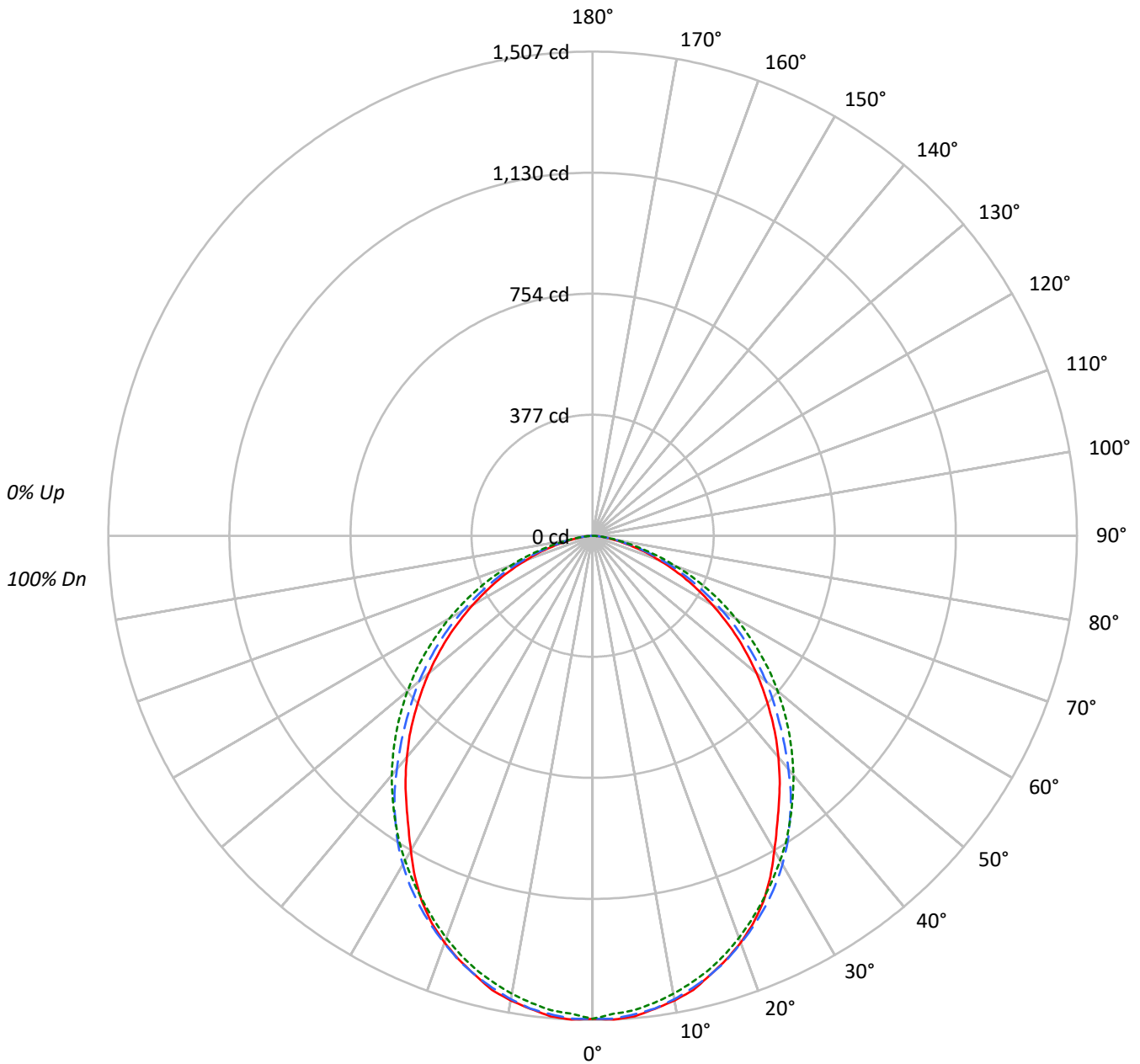
Lumens per Lamp: N/A
Luminaire Lumens: 3476.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555779

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-81-85-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555779

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-81-85-EDD

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°	8091	8091	8091
5°	8112	8078	8009
10°	8026	8004	7912
15°	7884	7884	7793
20°	7717	7727	7628
25°	7463	7555	7435
30°	7027	7343	7254
35°	6640	7039	7050
40°	6317	6658	6832
45°	5956	6255	6576
50°	5575	5894	6296
55°	5143	5484	5955
60°	4632	5004	5539
65°	4089	4450	5038
70°	3408	3789	4280
75°	2678	3026	3350
80°	1915	2129	2362
85°	1247	1247	1179



TEST NUMBER: P555779

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-81-85-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	4.1
10°-20°	397.6	11.4
20°-30°	581.1	16.7
30°-40°	659.6	19.0
40°-50°	636.7	18.3
50°-60°	525.2	15.1
60°-70°	349.8	10.1
70°-80°	156.5	4.5
80°-90°	28.0	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°	1120.2	32.2
0°-40°	1779.8	51.2
0°-60°	2941.7	84.6
0°-90°	3476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1502	1501	1495	1487	1482	142
15°	1415	1418	1415	1409	1399	399
25°	1257	1266	1272	1263	1252	576
35°	1011	1024	1071	1077	1073	633
45°	782	796	822	859	864	604
55°	548	557	584	617	635	489
65°	321	330	349	374	396	318
75°	129	136	146	152	161	141
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



TEST NUMBER: P555779

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-81-85-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.3	1503.3	1503.3	1503.3	1503.3
2.5°	1507.3	1507.9	1504.4	1495.2	1489.4
5°	1501.5	1501.0	1495.2	1487.1	1482.5
7.5°	1484.8	1486.0	1484.2	1472.7	1466.3
10°	1468.6	1469.2	1464.6	1455.3	1447.8
12.5°	1447.8	1447.3	1440.9	1436.3	1424.2
15°	1414.9	1418.4	1414.9	1408.6	1398.7
17.5°	1383.2	1383.2	1385.5	1374.5	1367.0
20°	1347.4	1349.1	1349.1	1340.4	1331.8
22.5°	1305.8	1311.0	1312.7	1303.5	1293.1
25°	1256.7	1266.5	1272.3	1263.0	1252.1
27.5°	1197.2	1212.2	1229.5	1222.6	1210.5
30°	1130.8	1152.7	1181.6	1175.8	1167.2
32.5°	1067.8	1089.8	1129.6	1127.3	1122.7
35°	1010.7	1024.5	1071.3	1077.1	1073.0
37.5°	956.4	969.1	1013.0	1026.3	1022.8
40°	899.2	913.1	947.7	971.4	972.5
42.5°	842.6	855.9	884.2	918.3	918.3
45°	782.5	795.8	821.8	859.3	864.0
47.5°	723.6	737.5	762.9	800.4	807.9
50°	665.9	678.6	704.0	740.4	751.9
52.5°	605.8	619.7	644.5	678.0	694.8
55°	548.1	557.3	584.4	616.8	634.7
57.5°	488.0	496.7	527.3	555.0	573.5
60°	430.3	441.2	464.9	493.2	514.6
62.5°	374.8	386.4	406.6	431.4	455.7
65°	321.1	329.8	349.4	374.2	395.6
67.5°	269.1	276.6	296.3	313.6	336.1
70°	216.6	226.4	240.8	257.6	272.0
72.5°	174.4	178.5	190.6	202.7	217.7
75°	128.8	135.7	145.5	152.5	161.1
77.5°	92.4	96.4	102.2	108.0	116.1
80°	61.8	63.5	68.7	69.9	76.2
82.5°	37.5	38.7	39.8	40.4	42.7
85°	20.2	20.2	20.2	19.1	19.1
87.5°	11.6	11.6	9.8	8.1	5.8
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)