

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: P555281

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-82-84-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: P555281
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-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

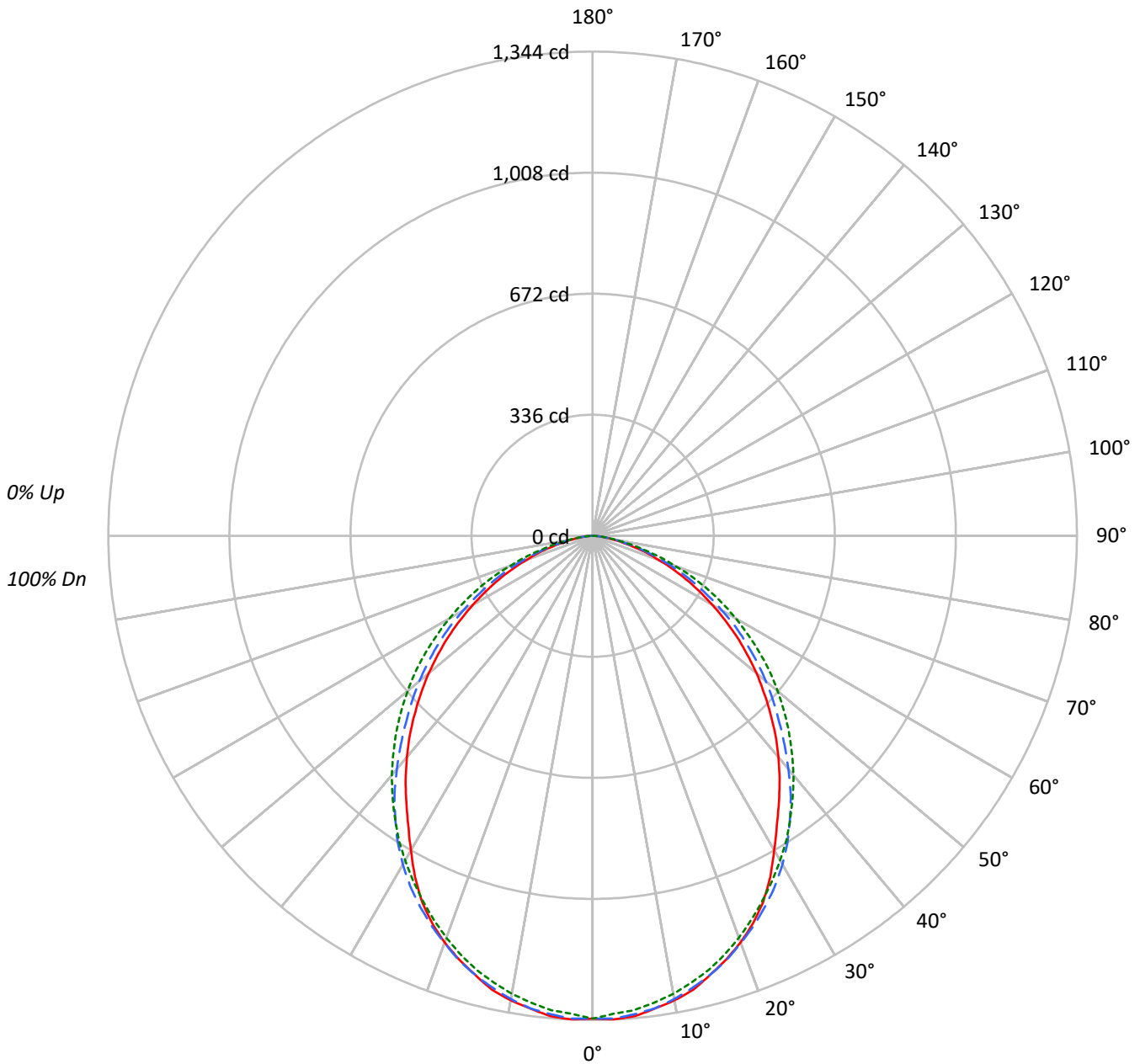
Lumens per Lamp: N/A
Luminaire Lumens: 3099.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P555281

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-84-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555281

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-84-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°	7213	7213	7213
5°	7232	7202	7141
10°	7155	7136	7054
15°	7029	7029	6948
20°	6880	6889	6800
25°	6653	6736	6629
30°	6265	6546	6467
35°	5920	6275	6286
40°	5632	5936	6092
45°	5310	5577	5863
50°	4971	5255	5613
55°	4585	4890	5310
60°	4129	4462	4938
65°	3646	3967	4492
70°	3039	3378	3816
75°	2387	2699	2988
80°	1708	1900	2108
85°	1112	1112	1050



TEST NUMBER: P555281

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-84-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	4.1
10°-20°	354.5	11.4
20°-30°	518.0	16.7
30°-40°	588.0	19.0
40°-50°	567.7	18.3
50°-60°	468.3	15.1
60°-70°	311.8	10.1
70°-80°	139.5	4.5
80°-90°	25.0	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°	998.7	32.2
0°-40°	1586.7	51.2
0°-60°	2622.7	84.6
0°-90°	3099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1339	1338	1333	1326	1322	127
15°	1262	1264	1262	1256	1247	356
25°	1120	1129	1134	1126	1116	513
35°	901	913	955	960	957	565
45°	698	710	733	766	770	538
55°	489	497	521	550	566	436
65°	286	294	312	334	353	284
75°	115	121	130	136	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



TEST NUMBER: P555281

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-82-84-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.2	1340.2	1340.2	1340.2	1340.2
2.5°	1343.8	1344.4	1341.3	1333.0	1327.9
5°	1338.7	1338.2	1333.0	1325.8	1321.7
7.5°	1323.8	1324.8	1323.2	1312.9	1307.3
10°	1309.3	1309.9	1305.7	1297.5	1290.8
12.5°	1290.8	1290.3	1284.6	1280.5	1269.7
15°	1261.5	1264.5	1261.5	1255.8	1247.0
17.5°	1233.1	1233.1	1235.2	1225.4	1218.7
20°	1201.2	1202.8	1202.8	1195.0	1187.3
22.5°	1164.1	1168.8	1170.3	1162.1	1152.8
25°	1120.4	1129.1	1134.3	1126.0	1116.3
27.5°	1067.4	1080.7	1096.2	1090.0	1079.2
30°	1008.1	1027.7	1053.4	1048.3	1040.6
32.5°	952.0	971.6	1007.1	1005.0	1000.9
35°	901.0	913.4	955.1	960.3	956.7
37.5°	852.6	864.0	903.1	914.9	911.9
40°	801.7	814.0	844.9	866.0	867.1
42.5°	751.2	763.1	788.3	818.7	818.7
45°	697.7	709.5	732.7	766.1	770.3
47.5°	645.1	657.5	680.2	713.6	720.3
50°	593.7	605.0	627.6	660.1	670.4
52.5°	540.1	552.5	574.6	604.5	619.4
55°	488.6	496.9	521.1	549.9	565.9
57.5°	435.1	442.8	470.1	494.8	511.3
60°	383.6	393.4	414.5	439.7	458.8
62.5°	334.2	344.5	362.5	384.6	406.2
65°	286.3	294.0	311.5	333.6	352.7
67.5°	239.9	246.6	264.1	279.6	299.7
70°	193.1	201.8	214.7	229.6	242.5
72.5°	155.5	159.1	169.9	180.7	194.1
75°	114.8	121.0	129.8	135.9	143.7
77.5°	82.4	86.0	91.1	96.3	103.5
80°	55.1	56.6	61.3	62.3	68.0
82.5°	33.5	34.5	35.5	36.0	38.1
85°	18.0	18.0	18.0	17.0	17.0
87.5°	10.3	10.3	8.8	7.2	5.1
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)