

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: P555259

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-94-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: P555259
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-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

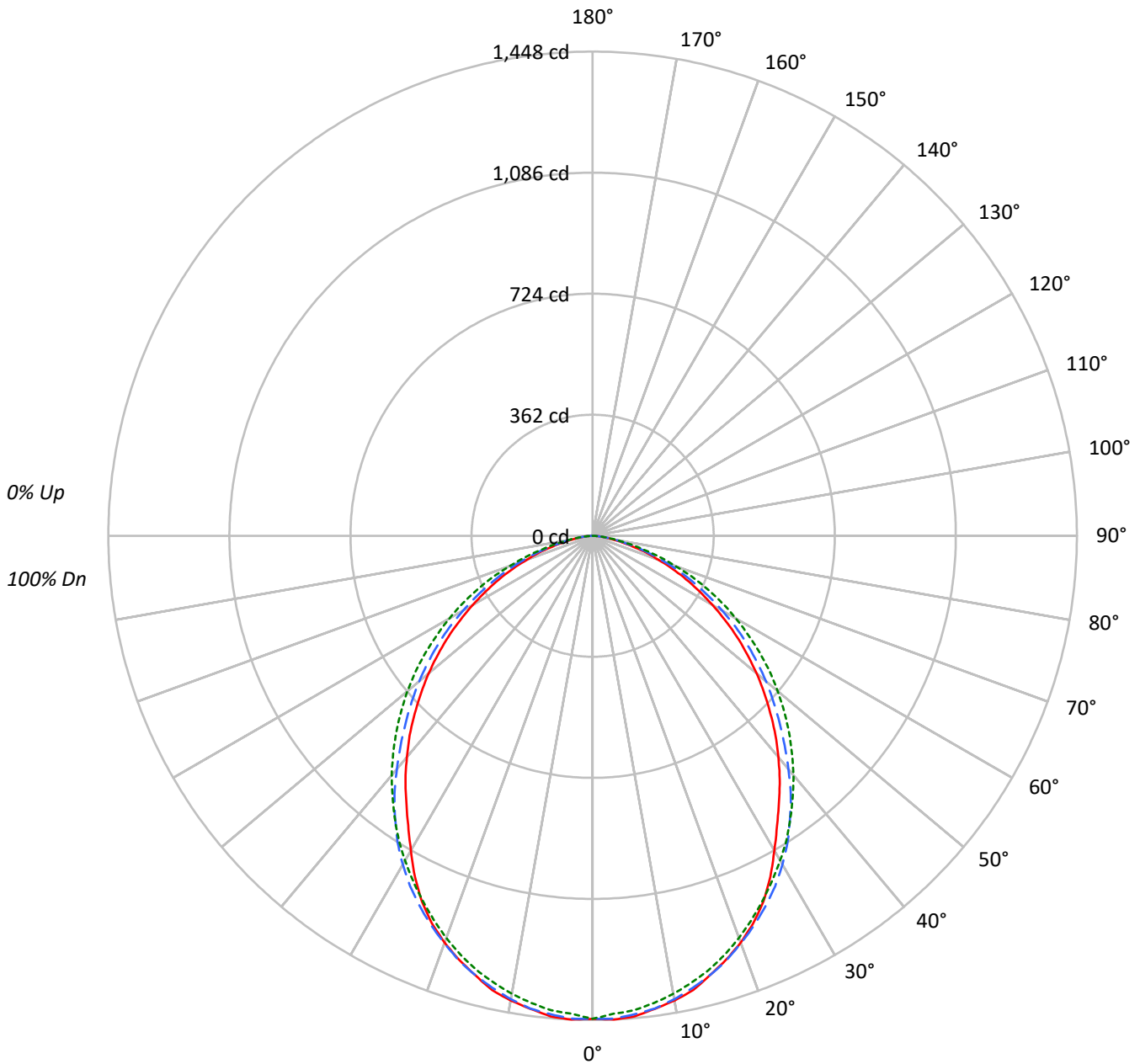
Lumens per Lamp: N/A
Luminaire Lumens: 3340.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555259

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-94-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P555259

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-94-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°	7774	7774	7774
5°	7795	7762	7696
10°	7712	7691	7603
15°	7575	7575	7489
20°	7415	7424	7329
25°	7171	7260	7144
30°	6752	7056	6970
35°	6380	6763	6774
40°	6070	6398	6565
45°	5723	6011	6319
50°	5357	5664	6049
55°	4941	5270	5723
60°	4450	4808	5322
65°	3929	4275	4840
70°	3275	3641	4113
75°	2572	2907	3219
80°	1841	2046	2269
85°	1198	1198	1130



TEST NUMBER: P555259

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-94-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	4.1
10°-20°	382.1	11.4
20°-30°	558.3	16.7
30°-40°	633.8	19.0
40°-50°	611.8	18.3
50°-60°	504.7	15.1
60°-70°	336.1	10.1
70°-80°	150.4	4.5
80°-90°	26.9	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°	1076.4	32.2
0°-40°	1710.1	51.2
0°-60°	2826.6	84.6
0°-90°	3340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1443	1442	1437	1429	1424	137
15°	1360	1363	1360	1354	1344	383
25°	1208	1217	1222	1214	1203	553
35°	971	984	1029	1035	1031	608
45°	752	765	790	826	830	580
55°	527	536	562	593	610	470
65°	308	317	336	360	380	306
75°	124	130	140	146	155	135
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



TEST NUMBER: P555259

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-80-94-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.5	1444.5	1444.5	1444.5	1444.5
2.5°	1448.3	1448.9	1445.6	1436.7	1431.1
5°	1442.8	1442.2	1436.7	1428.9	1424.5
7.5°	1426.7	1427.8	1426.2	1415.1	1408.9
10°	1411.2	1411.7	1407.3	1398.4	1391.2
12.5°	1391.2	1390.6	1384.5	1380.1	1368.4
15°	1359.6	1362.9	1359.6	1353.5	1344.0
17.5°	1329.0	1329.0	1331.3	1320.7	1313.5
20°	1294.6	1296.3	1296.3	1288.0	1279.7
22.5°	1254.7	1259.7	1261.3	1252.5	1242.5
25°	1207.5	1216.9	1222.5	1213.6	1203.1
27.5°	1150.4	1164.8	1181.4	1174.8	1163.1
30°	1086.5	1107.6	1135.4	1129.8	1121.5
32.5°	1026.1	1047.1	1085.4	1083.2	1078.8
35°	971.1	984.4	1029.4	1034.9	1031.0
37.5°	919.0	931.2	973.3	986.1	982.8
40°	864.0	877.3	910.6	933.4	934.5
42.5°	809.6	822.4	849.6	882.3	882.3
45°	751.9	764.7	789.7	825.7	830.2
47.5°	695.3	708.6	733.1	769.1	776.3
50°	639.8	652.0	676.5	711.4	722.5
52.5°	582.1	595.4	619.3	651.5	667.6
55°	526.6	535.5	561.6	592.7	609.9
57.5°	468.9	477.2	506.6	533.3	551.0
60°	413.4	424.0	446.7	473.9	494.4
62.5°	360.1	371.2	390.7	414.5	437.8
65°	308.5	316.9	335.7	359.6	380.1
67.5°	258.6	265.8	284.7	301.3	323.0
70°	208.1	217.5	231.4	247.5	261.4
72.5°	167.6	171.5	183.1	194.8	209.2
75°	123.7	130.4	139.8	146.5	154.8
77.5°	88.8	92.7	98.2	103.8	111.5
80°	59.4	61.0	66.0	67.1	73.2
82.5°	36.1	37.2	38.3	38.8	41.1
85°	19.4	19.4	19.4	18.3	18.3
87.5°	11.1	11.1	9.4	7.8	5.5
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)