

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: P555888

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-84-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: P555888
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-LD4-3STD-30-UNV-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

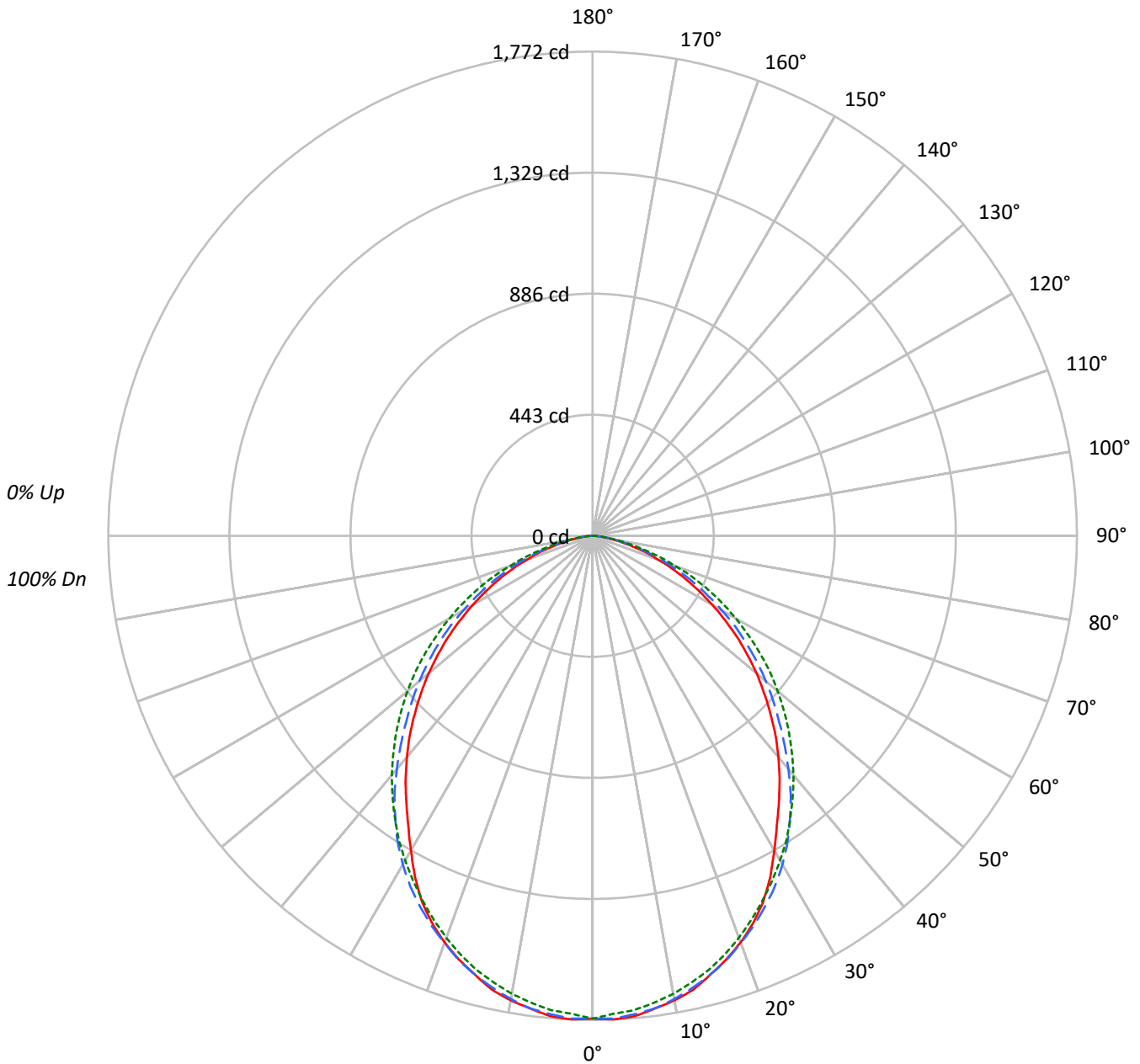
Lumens per Lamp: N/A
Luminaire Lumens: 4086.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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: P555888

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-80-84-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P555888

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-80-84-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°	9510	9510	9510
5°	9536	9495	9415
10°	9435	9409	9301
15°	9267	9267	9161
20°	9071	9082	8966
25°	8772	8881	8740
30°	8260	8632	8526
35°	7805	8274	8287
40°	7426	7827	8032
45°	7002	7352	7730
50°	6553	6929	7401
55°	6045	6446	7001
60°	5444	5882	6511
65°	4806	5230	5922
70°	4006	4455	5031
75°	3148	3558	3938
80°	2250	2504	2777
85°	1470	1470	1383



TEST NUMBER: P555888

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-80-84-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	4.1
10°-20°	467.4	11.4
20°-30°	683.0	16.7
30°-40°	775.3	19.0
40°-50°	748.4	18.3
50°-60°	617.4	15.1
60°-70°	411.1	10.1
70°-80°	184.0	4.5
80°-90°	32.9	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°	1316.8	32.2
0°-40°	2092.1	51.2
0°-60°	3457.9	84.6
0°-90°	4086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1765	1764	1758	1748	1743	167
15°	1663	1667	1663	1656	1644	469
25°	1477	1489	1496	1485	1472	676
35°	1188	1204	1259	1266	1261	744
45°	920	936	966	1010	1016	710
55°	644	655	687	725	746	575
65°	377	388	411	440	465	374
75°	151	160	171	179	189	166
85°	24	24	24	22	22	32
90°	0	0	0	0	0	



TEST NUMBER: P555888

CATALOG NUMBER: FUSL-12-2-LD4-3STD-30-UNV-80-84-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.1	1767.1	1767.1	1767.1	1767.1
2.5°	1771.8	1772.5	1768.4	1757.6	1750.8
5°	1765.1	1764.4	1757.6	1748.1	1742.7
7.5°	1745.4	1746.7	1744.7	1731.1	1723.6
10°	1726.4	1727.0	1721.6	1710.7	1701.9
12.5°	1701.9	1701.2	1693.8	1688.3	1674.1
15°	1663.2	1667.3	1663.2	1655.8	1644.2
17.5°	1625.9	1625.9	1628.6	1615.7	1606.9
20°	1583.8	1585.8	1585.8	1575.6	1565.5
22.5°	1534.9	1541.0	1543.1	1532.2	1520.0
25°	1477.2	1488.8	1495.5	1484.7	1471.8
27.5°	1407.3	1424.9	1445.3	1437.2	1422.9
30°	1329.2	1355.0	1389.0	1382.2	1372.0
32.5°	1255.2	1281.0	1327.9	1325.1	1319.7
35°	1188.0	1204.3	1259.3	1266.1	1261.3
37.5°	1124.2	1139.1	1190.7	1206.3	1202.3
40°	1057.0	1073.3	1114.0	1141.9	1143.2
42.5°	990.5	1006.1	1039.3	1079.4	1079.4
45°	919.9	935.5	966.0	1010.2	1015.6
47.5°	850.6	866.9	896.8	940.9	949.7
50°	782.7	797.7	827.5	870.3	883.9
52.5°	712.1	728.4	757.6	797.0	816.7
55°	644.2	655.1	687.0	725.0	746.1
57.5°	573.6	583.8	619.8	652.4	674.1
60°	505.8	518.7	546.5	579.8	604.9
62.5°	440.6	454.2	477.9	507.1	535.6
65°	377.4	387.6	410.7	439.9	465.0
67.5°	316.4	325.2	348.3	368.6	395.1
70°	254.6	266.1	283.1	302.8	319.7
72.5°	205.0	209.8	224.0	238.3	255.9
75°	151.4	159.5	171.1	179.2	189.4
77.5°	108.6	113.4	120.2	126.9	136.5
80°	72.6	74.7	80.8	82.1	89.6
82.5°	44.1	45.5	46.8	47.5	50.2
85°	23.8	23.8	23.8	22.4	22.4
87.5°	13.6	13.6	11.5	9.5	6.8
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)