

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: P554618

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-80-94-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: P554618
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-LD4-2HI-30-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

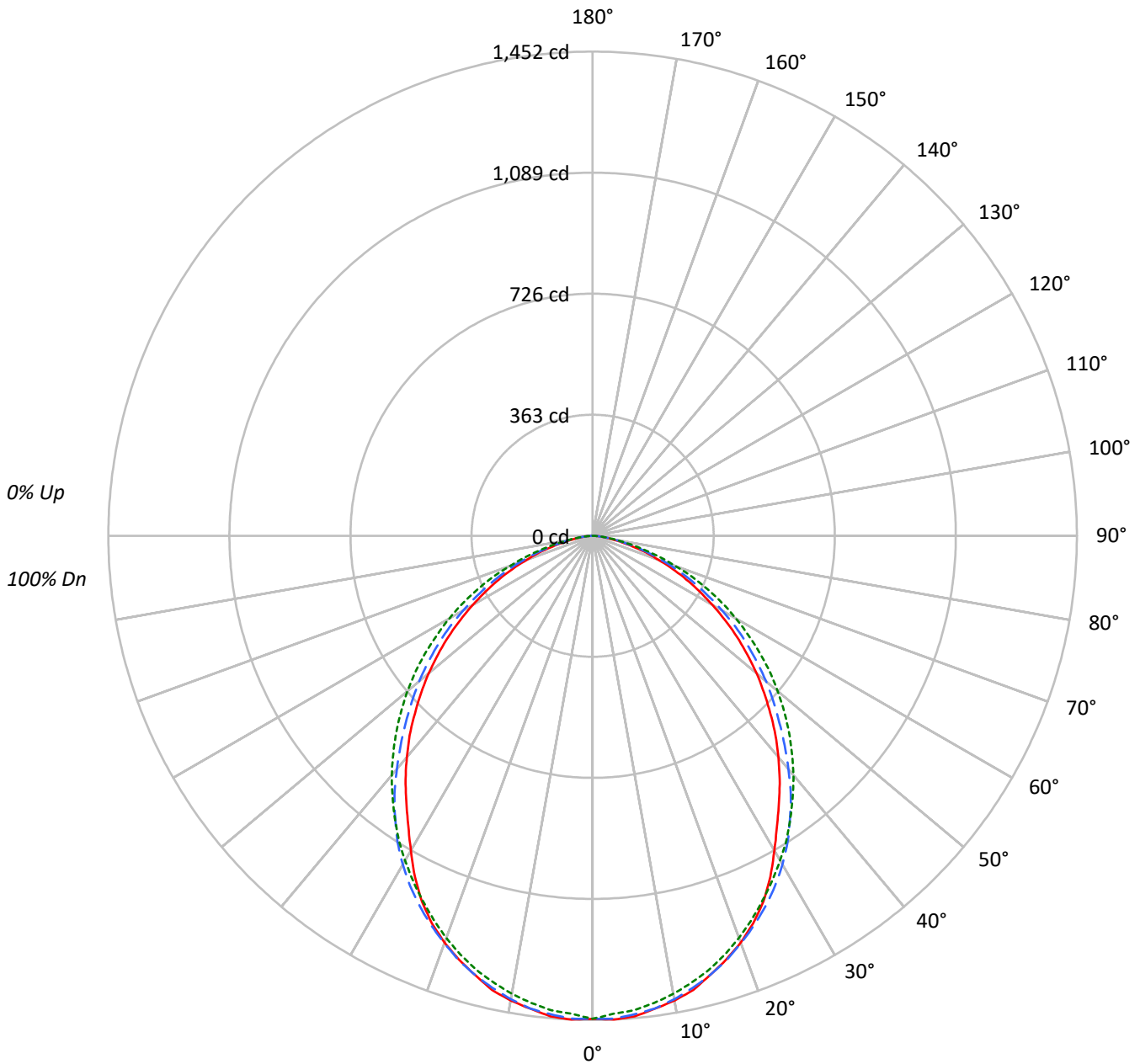
Lumens per Lamp: N/A
Luminaire Lumens: 3349.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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: P554618

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-94-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554618

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-94-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°	7795	7795	7795
5°	7816	7783	7716
10°	7733	7712	7623
15°	7595	7595	7509
20°	7435	7444	7349
25°	7190	7279	7163
30°	6771	7075	6988
35°	6397	6782	6792
40°	6086	6415	6583
45°	5738	6027	6336
50°	5371	5679	6066
55°	4954	5284	5738
60°	4462	4821	5337
65°	3940	4287	4853
70°	3284	3651	4124
75°	2581	2915	3227
80°	1844	2052	2275
85°	1204	1204	1136



TEST NUMBER: P554618

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-94-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	4.1
10°-20°	383.1	11.4
20°-30°	559.8	16.7
30°-40°	635.5	19.0
40°-50°	613.4	18.3
50°-60°	506.0	15.1
60°-70°	337.0	10.1
70°-80°	150.8	4.5
80°-90°	27.0	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°	1079.3	32.2
0°-40°	1714.8	51.2
0°-60°	2834.2	84.6
0°-90°	3349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1447	1446	1441	1433	1428	137
15°	1363	1367	1363	1357	1348	384
25°	1211	1220	1226	1217	1206	554
35°	974	987	1032	1038	1034	610
45°	754	767	792	828	832	582
55°	528	537	563	594	612	471
65°	309	318	337	361	381	307
75°	124	131	140	147	155	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



TEST NUMBER: P554618

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-80-94-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.4	1448.4	1448.4	1448.4	1448.4
2.5°	1452.3	1452.8	1449.5	1440.6	1435.0
5°	1446.7	1446.1	1440.6	1432.8	1428.3
7.5°	1430.6	1431.7	1430.0	1418.9	1412.7
10°	1415.0	1415.5	1411.1	1402.2	1394.9
12.5°	1394.9	1394.4	1388.3	1383.8	1372.1
15°	1363.2	1366.6	1363.2	1357.1	1347.6
17.5°	1332.6	1332.6	1334.8	1324.3	1317.0
20°	1298.1	1299.8	1299.8	1291.4	1283.1
22.5°	1258.1	1263.1	1264.7	1255.8	1245.8
25°	1210.8	1220.2	1225.8	1216.9	1206.3
27.5°	1153.5	1167.9	1184.6	1177.9	1166.3
30°	1089.5	1110.6	1138.4	1132.9	1124.5
32.5°	1028.8	1050.0	1088.4	1086.1	1081.7
35°	973.7	987.1	1032.2	1037.7	1033.8
37.5°	921.4	933.7	976.0	988.8	985.4
40°	866.3	879.7	913.1	935.9	937.0
42.5°	811.8	824.6	851.9	884.7	884.7
45°	753.9	766.7	791.8	827.9	832.4
47.5°	697.2	710.5	735.0	771.2	778.4
50°	641.5	653.8	678.3	713.3	724.5
52.5°	583.7	597.0	621.0	653.2	669.4
55°	528.0	536.9	563.1	594.3	611.5
57.5°	470.2	478.5	508.0	534.7	552.5
60°	414.5	425.1	447.9	475.2	495.8
62.5°	361.1	372.2	391.7	415.6	439.0
65°	309.4	317.7	336.6	360.6	381.1
67.5°	259.3	266.5	285.4	302.1	323.8
70°	208.7	218.1	232.0	248.2	262.1
72.5°	168.0	171.9	183.6	195.3	209.8
75°	124.1	130.8	140.2	146.9	155.2
77.5°	89.0	92.9	98.5	104.1	111.8
80°	59.5	61.2	66.2	67.3	73.4
82.5°	36.2	37.3	38.4	38.9	41.2
85°	19.5	19.5	19.5	18.4	18.4
87.5°	11.1	11.1	9.5	7.8	5.6
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)