

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: P555817

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-88-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: P555817
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

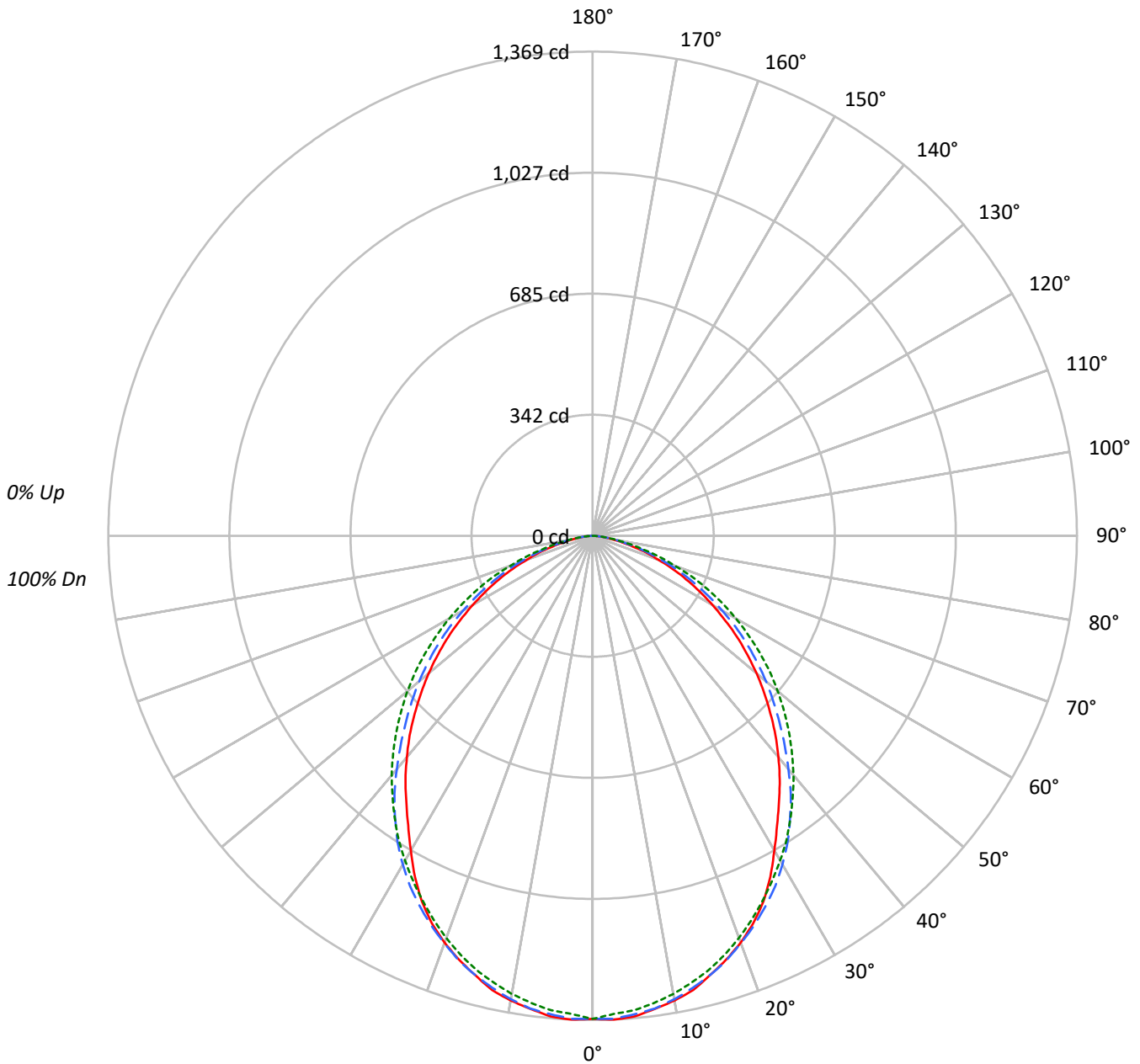
Lumens per Lamp: N/A
Luminaire Lumens: 3158.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P555817

CATALOG NUMBER: FUSL-12-2-LD4-3LO-40-UNV-93-88-EDD

Luminous Intensity Polar Plot





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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°	7351	7351	7351
5°	7370	7339	7277
10°	7292	7272	7189
15°	7163	7163	7081
20°	7011	7020	6930
25°	6780	6864	6755
30°	6384	6671	6590
35°	6033	6395	6405
40°	5739	6049	6208
45°	5411	5683	5974
50°	5066	5355	5719
55°	4672	4982	5410
60°	4208	4547	5032
65°	3715	4042	4577
70°	3097	3443	3888
75°	2433	2749	3044
80°	1739	1934	2148
85°	1136	1136	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	4.1
10°-20°	361.2	11.4
20°-30°	527.9	16.7
30°-40°	599.2	19.0
40°-50°	578.4	18.3
50°-60°	477.2	15.1
60°-70°	317.8	10.1
70°-80°	142.2	4.5
80°-90°	25.4	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°	1017.7	32.2
0°-40°	1617.0	51.2
0°-60°	2672.6	84.6
0°-90°	3158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1364	1364	1358	1351	1347	129
15°	1286	1289	1286	1280	1271	362
25°	1142	1151	1156	1148	1138	523
35°	918	931	973	978	975	575
45°	711	723	747	781	785	549
55°	498	506	531	560	577	444
65°	292	300	317	340	359	289
75°	117	123	132	138	146	128
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.8	1365.8	1365.8	1365.8	1365.8
2.5°	1369.4	1370.0	1366.8	1358.4	1353.2
5°	1364.2	1363.7	1358.4	1351.1	1346.9
7.5°	1349.0	1350.0	1348.4	1337.9	1332.2
10°	1334.3	1334.8	1330.6	1322.2	1315.4
12.5°	1315.4	1314.9	1309.1	1304.9	1293.9
15°	1285.5	1288.6	1285.5	1279.7	1270.8
17.5°	1256.6	1256.6	1258.7	1248.7	1241.9
20°	1224.1	1225.7	1225.7	1217.8	1209.9
22.5°	1186.3	1191.0	1192.6	1184.2	1174.8
25°	1141.7	1150.6	1155.9	1147.5	1137.5
27.5°	1087.7	1101.3	1117.1	1110.8	1099.7
30°	1027.3	1047.3	1073.5	1068.3	1060.4
32.5°	970.1	990.1	1026.3	1024.2	1020.0
35°	918.2	930.8	973.3	978.5	974.9
37.5°	868.9	880.4	920.3	932.4	929.2
40°	816.9	829.5	861.0	882.5	883.6
42.5°	765.5	777.6	803.3	834.2	834.2
45°	710.9	723.0	746.6	780.7	784.9
47.5°	657.4	670.0	693.1	727.2	734.0
50°	605.0	616.5	639.6	672.6	683.1
52.5°	550.4	563.0	585.5	616.0	631.2
55°	497.9	506.3	531.0	560.4	576.6
57.5°	443.4	451.2	479.0	504.2	521.0
60°	390.9	400.9	422.4	448.1	467.5
62.5°	340.5	351.0	369.4	391.9	414.0
65°	291.7	299.6	317.4	340.0	359.4
67.5°	244.5	251.3	269.2	284.9	305.4
70°	196.8	205.7	218.8	234.0	247.1
72.5°	158.5	162.1	173.1	184.2	197.8
75°	117.0	123.3	132.2	138.5	146.4
77.5°	83.9	87.6	92.9	98.1	105.5
80°	56.1	57.7	62.4	63.5	69.3
82.5°	34.1	35.2	36.2	36.7	38.8
85°	18.4	18.4	18.4	17.3	17.3
87.5°	10.5	10.5	8.9	7.3	5.2
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)