

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: P555661

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-96-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: P555661
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-30-UNV-81-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

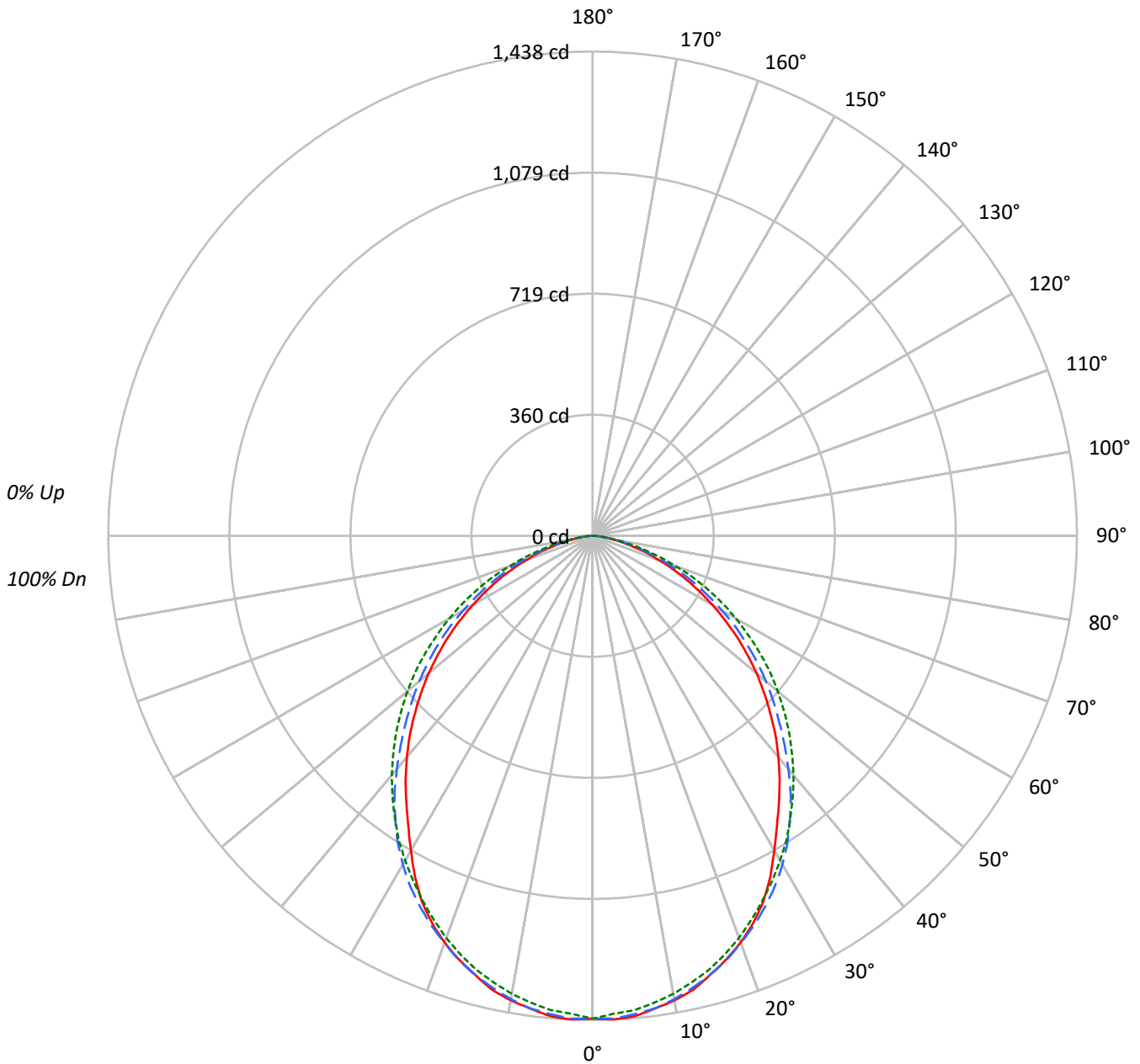
Lumens per Lamp: N/A
Luminaire Lumens: 3316.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P555661

CATALOG NUMBER: FUSL-12-2-LD4-3LO-30-UNV-81-96-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°	7718	7718	7718
5°	7739	7706	7641
10°	7656	7636	7548
15°	7521	7521	7435
20°	7361	7371	7277
25°	7119	7207	7093
30°	6704	7005	6919
35°	6334	6715	6725
40°	6027	6352	6518
45°	5682	5967	6273
50°	5318	5623	6006
55°	4906	5231	5682
60°	4418	4774	5284
65°	3901	4245	4806
70°	3251	3615	4083
75°	2556	2886	3196
80°	1829	2033	2253
85°	1192	1192	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	4.1
10°-20°	379.3	11.4
20°-30°	554.3	16.7
30°-40°	629.2	19.0
40°-50°	607.4	18.3
50°-60°	501.1	15.1
60°-70°	333.7	10.1
70°-80°	149.3	4.5
80°-90°	26.7	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°	1068.7	32.2
0°-40°	1697.9	51.2
0°-60°	2806.3	84.6
0°-90°	3316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1432	1432	1426	1419	1414	136
15°	1350	1353	1350	1344	1334	381
25°	1199	1208	1214	1205	1194	549
35°	964	977	1022	1028	1024	604
45°	746	759	784	820	824	576
55°	523	532	558	588	606	467
65°	306	315	333	357	377	304
75°	123	130	139	145	154	134
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1437.9	1438.5	1435.2	1426.4	1420.9
5°	1432.4	1431.9	1426.4	1418.7	1414.3
7.5°	1416.5	1417.6	1415.9	1404.9	1398.8
10°	1401.0	1401.6	1397.2	1388.4	1381.2
12.5°	1381.2	1380.6	1374.6	1370.2	1358.6
15°	1349.8	1353.1	1349.8	1343.7	1334.4
17.5°	1319.5	1319.5	1321.7	1311.2	1304.1
20°	1285.3	1287.0	1287.0	1278.7	1270.5
22.5°	1245.7	1250.6	1252.3	1243.5	1233.5
25°	1198.8	1208.2	1213.7	1204.9	1194.4
27.5°	1142.1	1156.4	1172.9	1166.3	1154.8
30°	1078.7	1099.7	1127.2	1121.7	1113.4
32.5°	1018.7	1039.6	1077.6	1075.4	1071.0
35°	964.1	977.4	1022.0	1027.5	1023.6
37.5°	912.3	924.5	966.3	979.0	975.7
40°	857.8	871.0	904.1	926.7	927.8
42.5°	803.8	816.5	843.5	876.0	876.0
45°	746.5	759.2	784.0	819.8	824.2
47.5°	690.3	703.5	727.8	763.6	770.8
50°	635.2	647.3	671.6	706.3	717.3
52.5°	577.9	591.2	614.8	646.8	662.8
55°	522.8	531.7	557.5	588.4	605.5
57.5°	465.5	473.8	503.0	529.4	547.1
60°	410.4	420.9	443.5	470.5	490.9
62.5°	357.6	368.6	387.9	411.5	434.7
65°	306.3	314.6	333.3	357.0	377.4
67.5°	256.7	263.9	282.6	299.2	320.6
70°	206.6	216.0	229.7	245.7	259.5
72.5°	166.4	170.2	181.8	193.4	207.7
75°	122.9	129.5	138.8	145.4	153.7
77.5°	88.1	92.0	97.5	103.0	110.7
80°	59.0	60.6	65.6	66.7	72.7
82.5°	35.8	36.9	38.0	38.6	40.8
85°	19.3	19.3	19.3	18.2	18.2
87.5°	11.0	11.0	9.4	7.7	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)