

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: P555739

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-94-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: P555739
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-35-UNV-82-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

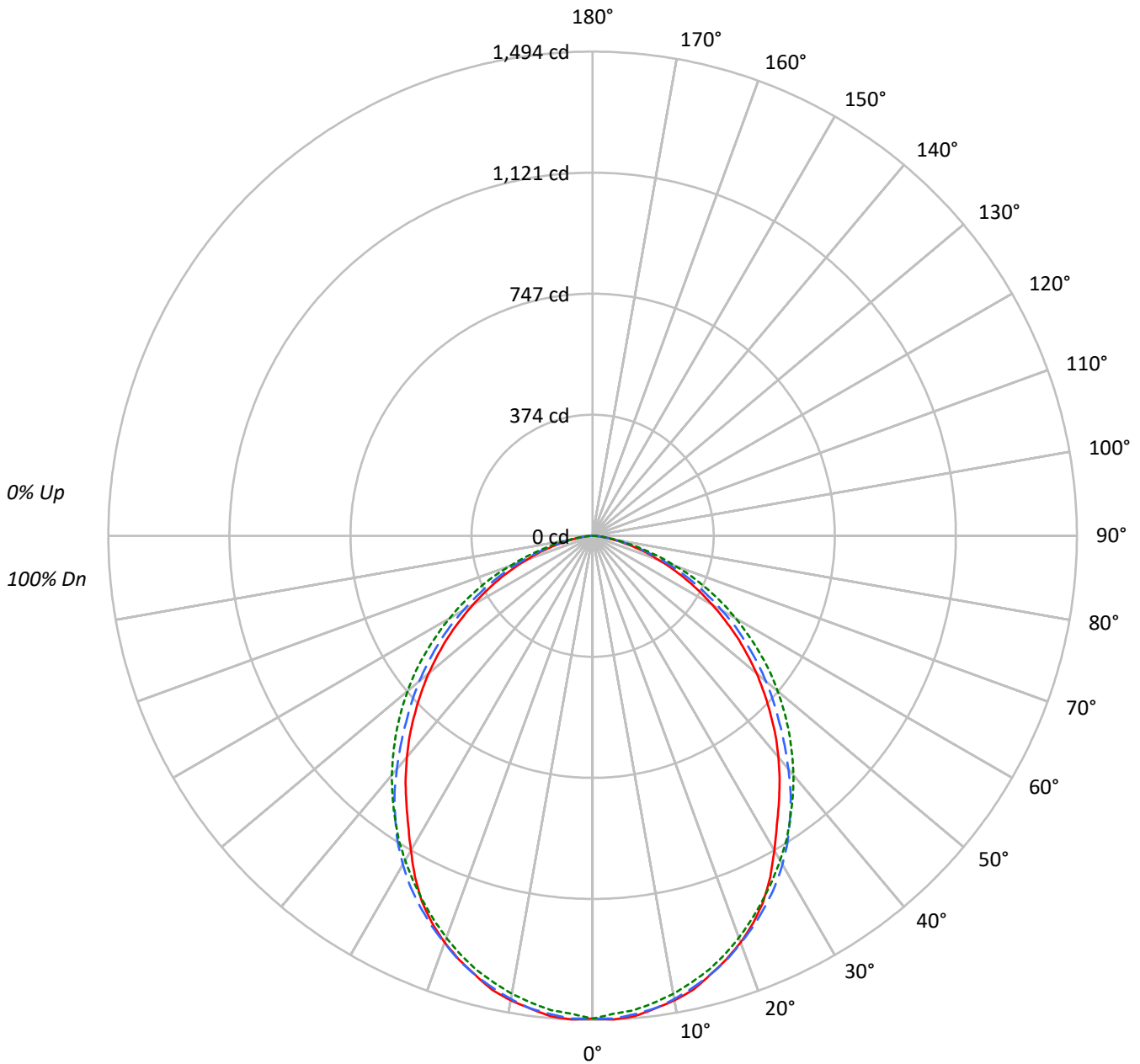
Lumens per Lamp: N/A
Luminaire Lumens: 3445.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	8019	8019	8019
5°	8040	8006	7938
10°	7954	7932	7842
15°	7813	7813	7724
20°	7648	7658	7560
25°	7396	7488	7369
30°	6965	7278	7189
35°	6581	6976	6987
40°	6261	6599	6772
45°	5903	6199	6518
50°	5525	5842	6239
55°	5097	5435	5902
60°	4590	4960	5490
65°	4052	4410	4993
70°	3377	3756	4242
75°	2653	2999	3321
80°	1897	2111	2343
85°	1235	1235	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	4.1
10°-20°	394.1	11.4
20°-30°	575.9	16.7
30°-40°	653.7	19.0
40°-50°	631.0	18.3
50°-60°	520.6	15.1
60°-70°	346.6	10.1
70°-80°	155.1	4.5
80°-90°	27.7	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°	1110.2	32.2
0°-40°	1763.9	51.2
0°-60°	2915.5	84.6
0°-90°	3445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1488	1488	1482	1474	1469	141
15°	1402	1406	1402	1396	1386	395
25°	1246	1255	1261	1252	1241	570
35°	1002	1015	1062	1068	1064	628
45°	776	789	814	852	856	598
55°	543	552	579	611	629	485
65°	318	327	346	371	392	316
75°	128	134	144	151	160	140
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.9	1489.9	1489.9	1489.9	1489.9
2.5°	1493.9	1494.5	1491.0	1481.9	1476.1
5°	1488.2	1487.6	1481.9	1473.8	1469.3
7.5°	1471.6	1472.7	1471.0	1459.5	1453.2
10°	1455.5	1456.1	1451.5	1442.4	1434.9
12.5°	1434.9	1434.4	1428.1	1423.5	1411.5
15°	1402.3	1405.7	1402.3	1396.0	1386.3
17.5°	1370.8	1370.8	1373.1	1362.2	1354.8
20°	1335.3	1337.1	1337.1	1328.5	1319.9
22.5°	1294.1	1299.3	1301.0	1291.8	1281.5
25°	1245.5	1255.2	1260.9	1251.8	1240.9
27.5°	1186.5	1201.4	1218.6	1211.7	1199.7
30°	1120.7	1142.4	1171.1	1165.3	1156.8
32.5°	1058.3	1080.1	1119.6	1117.3	1112.7
35°	1001.6	1015.4	1061.7	1067.5	1063.5
37.5°	947.8	960.4	1003.9	1017.1	1013.7
40°	891.2	904.9	939.3	962.7	963.9
42.5°	835.1	848.2	876.3	910.1	910.1
45°	775.6	788.7	814.5	851.7	856.3
47.5°	717.2	730.9	756.1	793.3	800.7
50°	659.9	672.5	697.7	733.8	745.2
52.5°	600.4	614.2	638.8	672.0	688.6
55°	543.2	552.3	579.2	611.3	629.0
57.5°	483.7	492.2	522.6	550.0	568.4
60°	426.4	437.3	460.8	488.8	510.0
62.5°	371.5	382.9	402.9	427.6	451.6
65°	318.2	326.8	346.3	370.9	392.1
67.5°	266.7	274.2	293.6	310.8	333.1
70°	214.6	224.4	238.7	255.3	269.6
72.5°	172.9	176.9	188.9	200.9	215.8
75°	127.6	134.5	144.2	151.1	159.7
77.5°	91.6	95.6	101.3	107.0	115.0
80°	61.2	63.0	68.1	69.3	75.6
82.5°	37.2	38.3	39.5	40.1	42.4
85°	20.0	20.0	20.0	18.9	18.9
87.5°	11.4	11.4	9.7	8.0	5.7
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)