

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: P555733

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-86-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: P555733
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-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

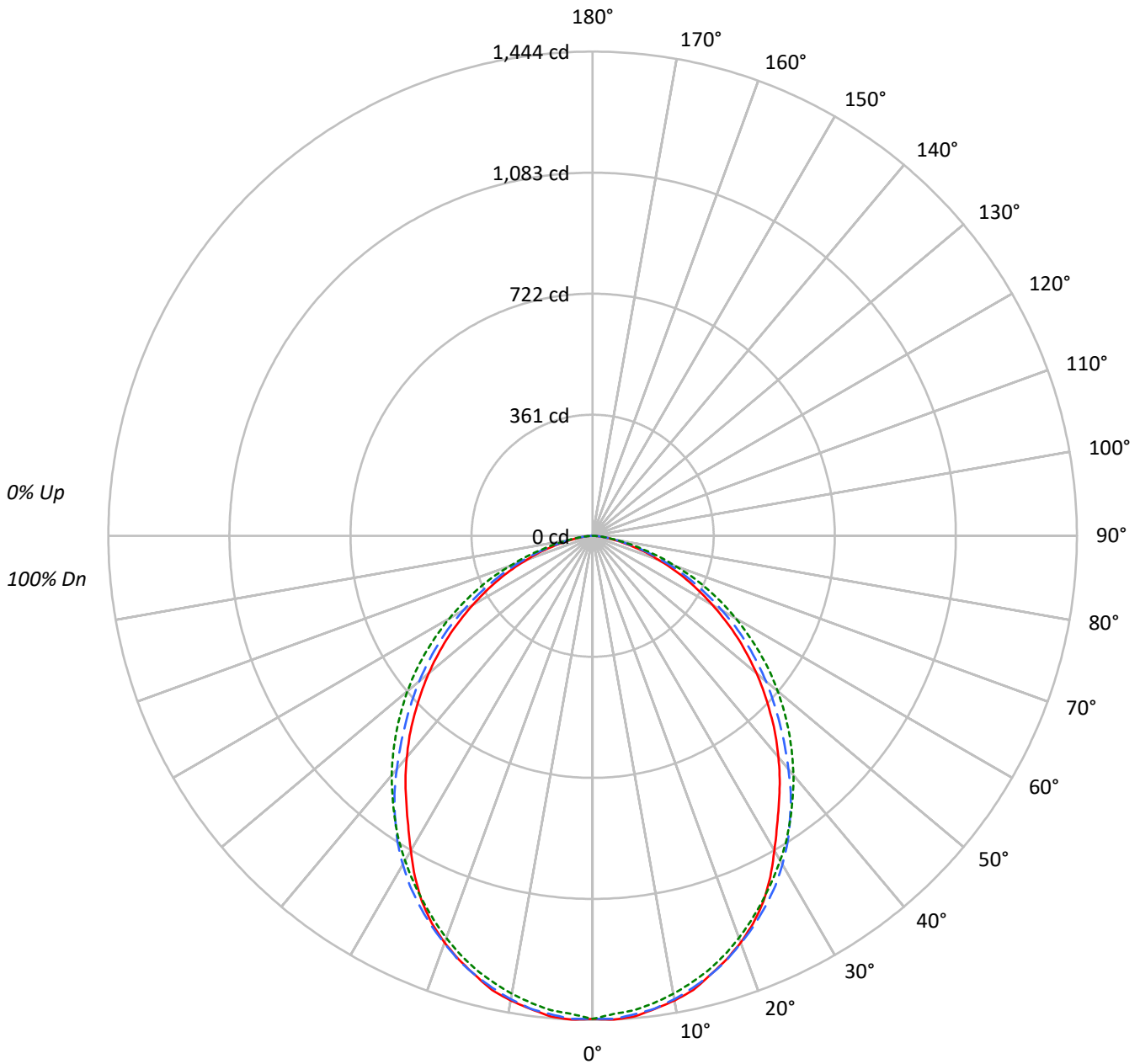
Lumens per Lamp: N/A
Luminaire Lumens: 3331.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	7753	7753	7753
5°	7774	7741	7675
10°	7691	7670	7582
15°	7555	7555	7468
20°	7395	7404	7309
25°	7152	7240	7125
30°	6734	7037	6951
35°	6363	6745	6756
40°	6054	6381	6548
45°	5708	5994	6301
50°	5343	5648	6033
55°	4928	5256	5707
60°	4438	4795	5308
65°	3918	4264	4828
70°	3265	3632	4102
75°	2566	2901	3211
80°	1835	2042	2266
85°	1198	1198	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	4.1
10°-20°	381.0	11.4
20°-30°	556.8	16.7
30°-40°	632.1	19.0
40°-50°	610.1	18.3
50°-60°	503.3	15.1
60°-70°	335.2	10.1
70°-80°	150.0	4.5
80°-90°	26.8	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°	1073.5	32.2
0°-40°	1705.5	51.2
0°-60°	2819.0	84.6
0°-90°	3331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1439	1438	1433	1425	1421	136
15°	1356	1359	1356	1350	1340	382
25°	1204	1214	1219	1210	1200	551
35°	968	982	1027	1032	1028	607
45°	750	763	788	824	828	579
55°	525	534	560	591	608	469
65°	308	316	335	359	379	305
75°	123	130	140	146	154	135
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°	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1444.4	1445.0	1441.7	1432.8	1427.3
5°	1438.9	1438.4	1432.8	1425.1	1420.6
7.5°	1422.9	1424.0	1422.3	1411.2	1405.2
10°	1407.4	1407.9	1403.5	1394.6	1387.4
12.5°	1387.4	1386.9	1380.8	1376.4	1364.8
15°	1355.9	1359.2	1355.9	1349.8	1340.4
17.5°	1325.5	1325.5	1327.7	1317.2	1310.0
20°	1291.1	1292.8	1292.8	1284.5	1276.2
22.5°	1251.3	1256.3	1257.9	1249.1	1239.1
25°	1204.3	1213.7	1219.2	1210.3	1199.8
27.5°	1147.3	1161.6	1178.2	1171.6	1160.0
30°	1083.6	1104.6	1132.3	1126.8	1118.5
32.5°	1023.3	1044.3	1082.5	1080.3	1075.9
35°	968.5	981.8	1026.6	1032.1	1028.3
37.5°	916.5	928.7	970.7	983.4	980.1
40°	861.7	875.0	908.2	930.9	932.0
42.5°	807.5	820.2	847.3	879.9	879.9
45°	749.9	762.6	787.5	823.5	827.9
47.5°	693.4	706.7	731.1	767.1	774.2
50°	638.1	650.3	674.6	709.5	720.6
52.5°	580.5	593.8	617.6	649.7	665.8
55°	525.2	534.1	560.1	591.1	608.2
57.5°	467.6	475.9	505.3	531.8	549.6
60°	412.3	422.8	445.5	472.6	493.1
62.5°	359.2	370.2	389.6	413.4	436.7
65°	307.7	316.0	334.8	358.6	379.1
67.5°	257.9	265.1	283.9	300.5	322.1
70°	207.5	216.9	230.8	246.8	260.7
72.5°	167.1	171.0	182.6	194.3	208.6
75°	123.4	130.1	139.5	146.1	154.4
77.5°	88.5	92.4	98.0	103.5	111.2
80°	59.2	60.9	65.9	67.0	73.1
82.5°	36.0	37.1	38.2	38.7	41.0
85°	19.4	19.4	19.4	18.3	18.3
87.5°	11.1	11.1	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)