

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: P555249

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-84-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: P555249
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-LD4-2STD-40-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

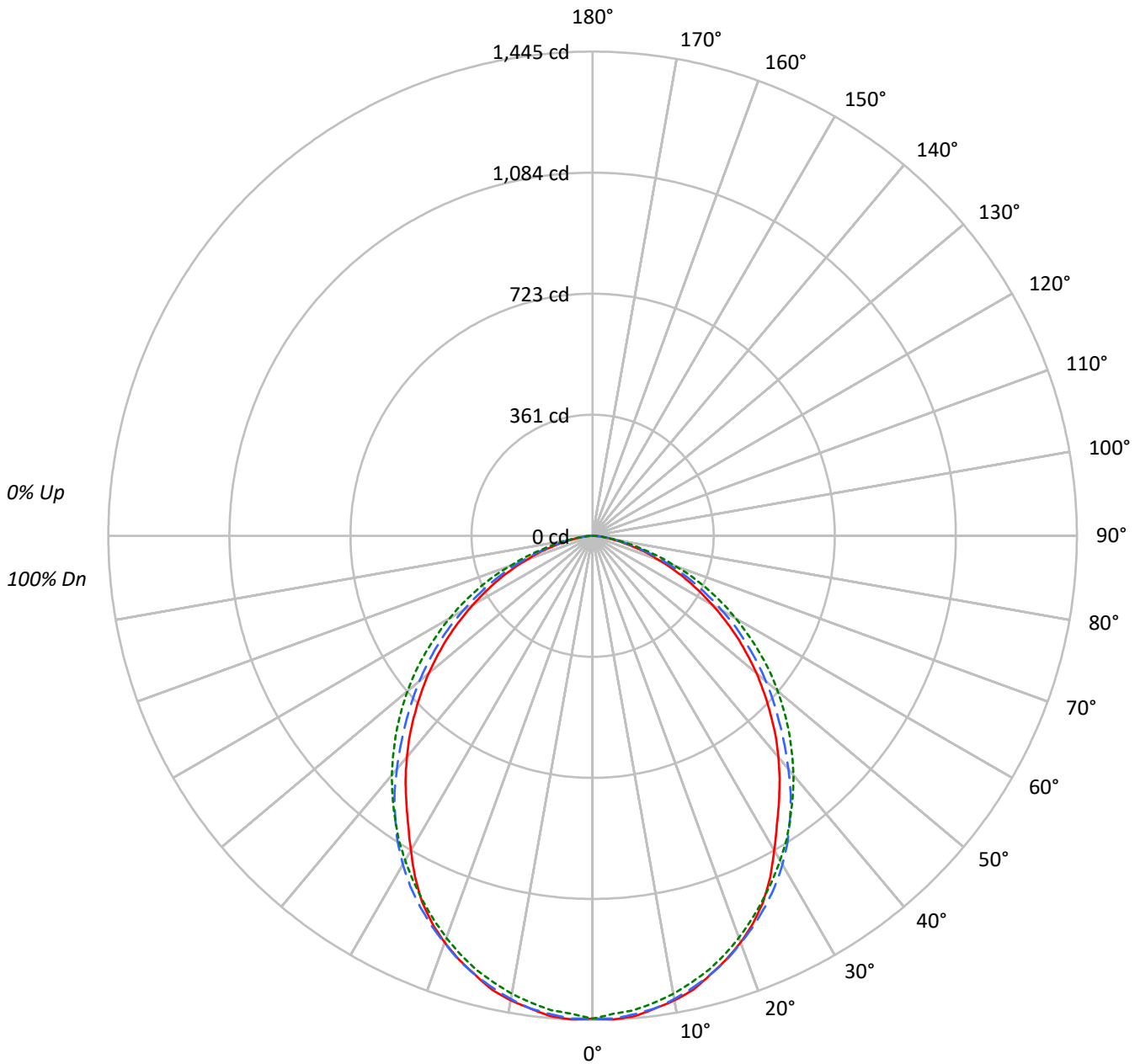
Lumens per Lamp: N/A
Luminaire Lumens: 3332.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	7755	7755	7755
5°	7776	7743	7678
10°	7694	7672	7585
15°	7557	7557	7471
20°	7397	7407	7312
25°	7153	7242	7127
30°	6736	7039	6953
35°	6365	6747	6758
40°	6055	6382	6550
45°	5709	5996	6304
50°	5344	5650	6035
55°	4930	5256	5709
60°	4439	4796	5310
65°	3920	4265	4829
70°	3267	3632	4102
75°	2568	2901	3213
80°	1835	2042	2266
85°	1198	1198	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	4.1
10°-20°	381.2	11.4
20°-30°	557.0	16.7
30°-40°	632.2	19.0
40°-50°	610.3	18.3
50°-60°	503.5	15.1
60°-70°	335.3	10.1
70°-80°	150.0	4.5
80°-90°	26.9	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°	1073.8	32.2
0°-40°	1706.0	51.2
0°-60°	2819.8	84.6
0°-90°	3332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1439	1439	1433	1426	1421	136
15°	1356	1360	1356	1350	1341	382
25°	1205	1214	1220	1211	1200	552
35°	969	982	1027	1032	1029	607
45°	750	763	788	824	828	579
55°	525	534	560	591	608	469
65°	308	316	335	359	379	305
75°	124	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°	1441.0	1441.0	1441.0	1441.0	1441.0
2.5°	1444.9	1445.4	1442.1	1433.3	1427.7
5°	1439.3	1438.8	1433.3	1425.5	1421.1
7.5°	1423.3	1424.4	1422.7	1411.7	1405.6
10°	1407.8	1408.3	1403.9	1395.1	1387.9
12.5°	1387.9	1387.3	1381.2	1376.8	1365.2
15°	1356.3	1359.6	1356.3	1350.2	1340.8
17.5°	1325.9	1325.9	1328.1	1317.6	1310.4
20°	1291.5	1293.2	1293.2	1284.9	1276.6
22.5°	1251.7	1256.7	1258.3	1249.5	1239.5
25°	1204.6	1214.0	1219.6	1210.7	1200.2
27.5°	1147.6	1162.0	1178.6	1172.0	1160.3
30°	1083.9	1105.0	1132.7	1127.1	1118.8
32.5°	1023.6	1044.6	1082.8	1080.6	1076.2
35°	968.8	982.1	1026.9	1032.5	1028.6
37.5°	916.8	928.9	971.0	983.7	980.4
40°	861.9	875.2	908.4	931.1	932.3
42.5°	807.7	820.4	847.6	880.2	880.2
45°	750.1	762.9	787.8	823.7	828.2
47.5°	693.7	706.9	731.3	767.3	774.5
50°	638.3	650.5	674.8	709.7	720.8
52.5°	580.7	594.0	617.8	649.9	666.0
55°	525.4	534.2	560.2	591.2	608.4
57.5°	467.8	476.1	505.4	532.0	549.7
60°	412.4	422.9	445.6	472.8	493.3
62.5°	359.3	370.4	389.7	413.5	436.8
65°	307.8	316.1	334.9	358.7	379.2
67.5°	258.0	265.2	284.0	300.6	322.2
70°	207.6	217.0	230.8	246.9	260.7
72.5°	167.2	171.1	182.7	194.3	208.7
75°	123.5	130.1	139.5	146.1	154.5
77.5°	88.6	92.5	98.0	103.5	111.3
80°	59.2	60.9	65.9	67.0	73.1
82.5°	36.0	37.1	38.2	38.8	41.0
85°	19.4	19.4	19.4	18.3	18.3
87.5°	11.1	11.1	9.4	7.8	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)