

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: P556088

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-80-88-EDD-90**

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: P556088
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-LD4-3STD-50-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

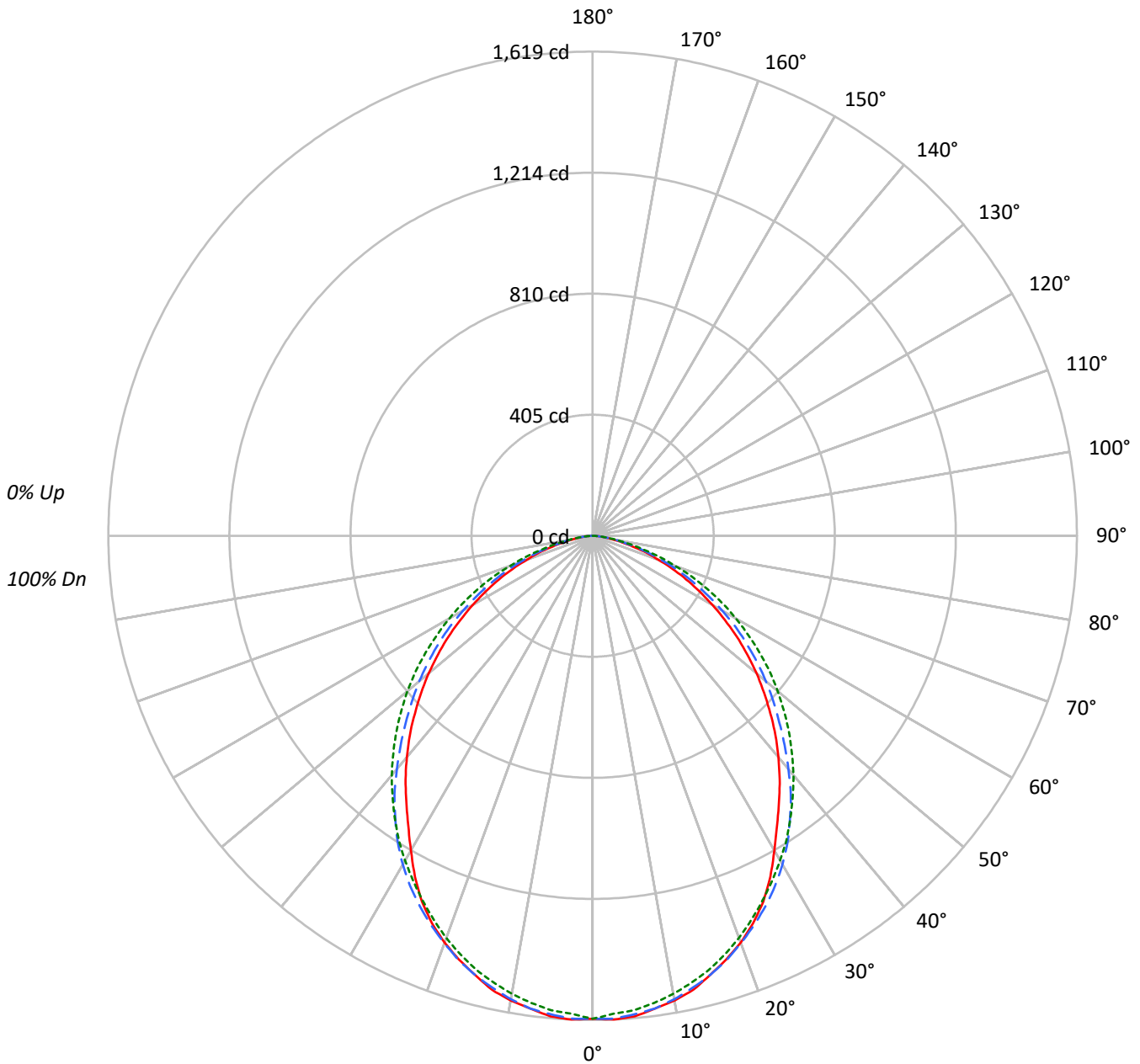
Lumens per Lamp: N/A
Luminaire Lumens: 3734.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8691	8691	8691
5°	8714	8678	8604
10°	8622	8598	8500
15°	8469	8469	8372
20°	8290	8300	8194
25°	8017	8116	7987
30°	7549	7888	7792
35°	7133	7561	7573
40°	6786	7152	7340
45°	6398	6719	7064
50°	5989	6332	6763
55°	5524	5891	6397
60°	4975	5375	5950
65°	4392	4779	5412
70°	3660	4071	4598
75°	2876	3250	3599
80°	2058	2287	2538
85°	1340	1340	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	4.1
10°-20°	427.1	11.4
20°-30°	624.2	16.7
30°-40°	708.5	19.0
40°-50°	684.0	18.3
50°-60°	564.2	15.1
60°-70°	375.7	10.1
70°-80°	168.1	4.5
80°-90°	30.1	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°	1203.4	32.2
0°-40°	1911.9	51.2
0°-60°	3160.1	84.6
0°-90°	3734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1613	1612	1606	1598	1592	153
15°	1520	1524	1520	1513	1503	428
25°	1350	1360	1367	1357	1345	618
35°	1086	1101	1151	1157	1153	680
45°	841	855	883	923	928	649
55°	589	599	628	663	682	525
65°	345	354	375	402	425	342
75°	138	146	156	164	173	151
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.9	1614.9	1614.9	1614.9	1614.9
2.5°	1619.2	1619.8	1616.1	1606.2	1600.0
5°	1613.0	1612.4	1606.2	1597.5	1592.5
7.5°	1595.0	1596.2	1594.4	1582.0	1575.2
10°	1577.6	1578.3	1573.3	1563.4	1555.3
12.5°	1555.3	1554.7	1547.9	1542.9	1529.9
15°	1519.9	1523.7	1519.9	1513.1	1502.6
17.5°	1485.8	1485.8	1488.3	1476.5	1468.4
20°	1447.4	1449.2	1449.2	1439.9	1430.6
22.5°	1402.7	1408.3	1410.1	1400.2	1389.0
25°	1350.0	1360.5	1366.7	1356.8	1345.0
27.5°	1286.1	1302.2	1320.8	1313.4	1300.3
30°	1214.7	1238.3	1269.3	1263.1	1253.8
32.5°	1147.1	1170.7	1213.5	1211.0	1206.0
35°	1085.7	1100.6	1150.8	1157.0	1152.7
37.5°	1027.4	1041.0	1088.2	1102.4	1098.7
40°	965.9	980.8	1018.0	1043.5	1044.7
42.5°	905.1	919.4	949.8	986.4	986.4
45°	840.6	854.9	882.8	923.1	928.1
47.5°	777.3	792.2	819.5	859.9	867.9
50°	715.3	729.0	756.2	795.3	807.7
52.5°	650.8	665.7	692.3	728.3	746.3
55°	588.7	598.7	627.8	662.6	681.8
57.5°	524.2	533.5	566.4	596.2	616.0
60°	462.2	474.0	499.4	529.8	552.8
62.5°	402.6	415.0	436.8	463.4	489.5
65°	344.9	354.2	375.3	402.0	425.0
67.5°	289.1	297.2	318.3	336.9	361.1
70°	232.6	243.2	258.7	276.7	292.2
72.5°	187.4	191.7	204.7	217.8	233.9
75°	138.3	145.8	156.3	163.8	173.1
77.5°	99.3	103.6	109.8	116.0	124.7
80°	66.4	68.2	73.8	75.1	81.9
82.5°	40.3	41.6	42.8	43.4	45.9
85°	21.7	21.7	21.7	20.5	20.5
87.5°	12.4	12.4	10.5	8.7	6.2
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)