

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: P555906

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-85-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: P555906
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-30-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

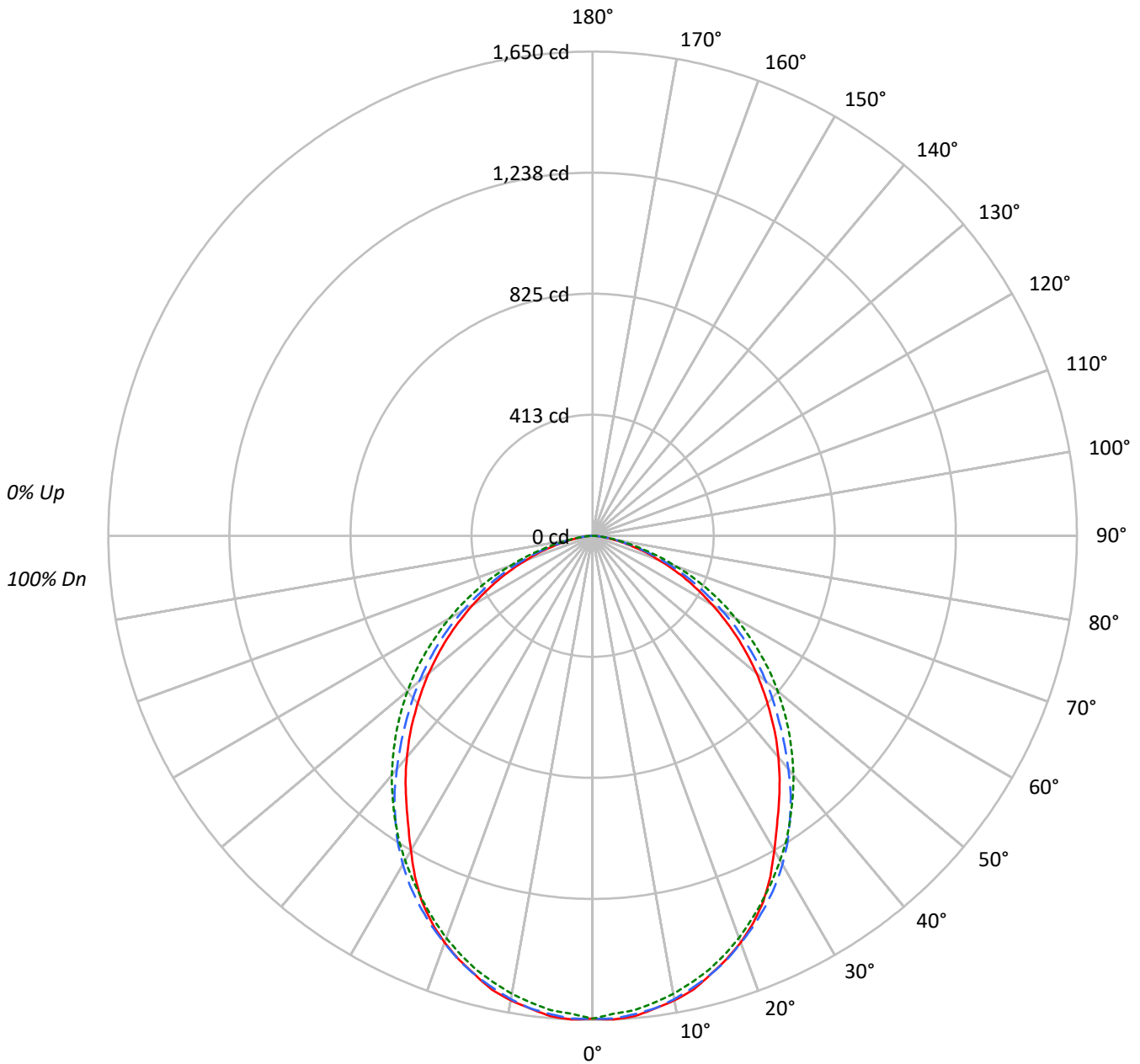
Lumens per Lamp: N/A
Luminaire Lumens: 3805.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8857	8857	8857
5°	8880	8842	8767
10°	8786	8761	8661
15°	8630	8630	8531
20°	8447	8458	8349
25°	8169	8270	8139
30°	7692	8038	7940
35°	7269	7705	7717
40°	6915	7288	7480
45°	6520	6847	7198
50°	6103	6452	6892
55°	5629	6003	6519
60°	5070	5478	6063
65°	4476	4871	5514
70°	3731	4148	4686
75°	2932	3313	3668
80°	2095	2331	2585
85°	1365	1365	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	4.1
10°-20°	435.3	11.4
20°-30°	636.0	16.7
30°-40°	722.0	19.0
40°-50°	697.0	18.3
50°-60°	575.0	15.1
60°-70°	382.9	10.1
70°-80°	171.3	4.5
80°-90°	30.6	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°	1226.2	32.2
0°-40°	1948.2	51.2
0°-60°	3220.2	84.6
0°-90°	3805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1644	1643	1637	1628	1623	156
15°	1549	1553	1549	1542	1531	437
25°	1376	1386	1393	1383	1371	630
35°	1106	1122	1173	1179	1175	693
45°	857	871	900	941	946	661
55°	600	610	640	675	695	535
65°	352	361	382	410	433	349
75°	141	149	159	167	176	154
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.6	1645.6	1645.6	1645.6	1645.6
2.5°	1650.0	1650.6	1646.8	1636.7	1630.4
5°	1643.7	1643.0	1636.7	1627.9	1622.8
7.5°	1625.3	1626.6	1624.7	1612.1	1605.1
10°	1607.6	1608.3	1603.2	1593.1	1584.9
12.5°	1584.9	1584.2	1577.3	1572.2	1559.0
15°	1548.8	1552.6	1548.8	1541.9	1531.1
17.5°	1514.1	1514.1	1516.6	1504.6	1496.4
20°	1474.9	1476.8	1476.8	1467.3	1457.8
22.5°	1429.4	1435.0	1436.9	1426.8	1415.5
25°	1375.6	1386.4	1392.7	1382.6	1370.6
27.5°	1310.5	1326.9	1345.9	1338.3	1325.0
30°	1237.8	1261.8	1293.4	1287.1	1277.6
32.5°	1168.9	1192.9	1236.5	1234.0	1229.0
35°	1106.3	1121.5	1172.7	1179.0	1174.6
37.5°	1046.9	1060.8	1108.8	1123.4	1119.6
40°	984.3	999.5	1037.4	1063.3	1064.6
42.5°	922.4	936.9	967.9	1005.2	1005.2
45°	856.6	871.1	899.6	940.7	945.7
47.5°	792.1	807.3	835.1	876.2	884.4
50°	728.9	742.8	770.6	810.5	823.1
52.5°	663.2	678.3	705.5	742.2	760.5
55°	599.9	610.1	639.8	675.2	694.8
57.5°	534.2	543.7	577.2	607.5	627.8
60°	471.0	483.0	508.9	539.9	563.3
62.5°	410.3	422.9	445.1	472.2	498.8
65°	351.5	361.0	382.5	409.7	433.0
67.5°	294.6	302.8	324.3	343.3	367.9
70°	237.1	247.8	263.6	282.0	297.8
72.5°	190.9	195.3	208.6	221.9	238.3
75°	141.0	148.6	159.3	166.9	176.4
77.5°	101.1	105.6	111.9	118.2	127.1
80°	67.6	69.5	75.2	76.5	83.4
82.5°	41.1	42.4	43.6	44.3	46.8
85°	22.1	22.1	22.1	20.9	20.9
87.5°	12.6	12.6	10.7	8.9	6.3
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)