

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: P555918

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-97-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: P555918
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-81-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

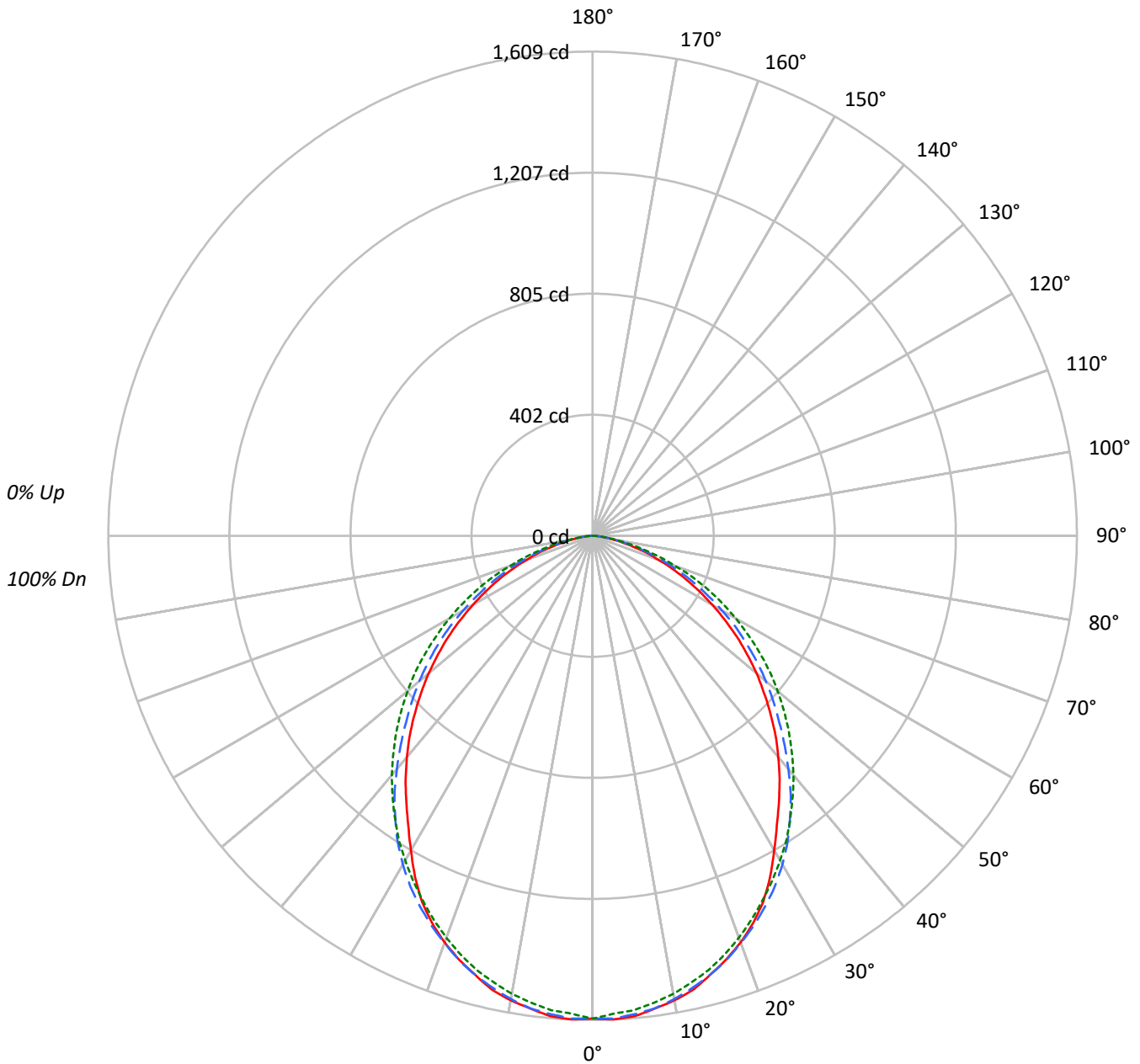
Lumens per Lamp: N/A
Luminaire Lumens: 3710.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8635	8635	8635
5°	8658	8621	8548
10°	8566	8543	8445
15°	8415	8415	8318
20°	8237	8247	8141
25°	7965	8064	7935
30°	7500	7837	7741
35°	7087	7512	7525
40°	6743	7106	7293
45°	6357	6676	7018
50°	5951	6291	6719
55°	5489	5853	6356
60°	4943	5341	5912
65°	4364	4749	5377
70°	3637	4044	4568
75°	2859	3229	3577
80°	2046	2275	2523
85°	1334	1334	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	4.1
10°-20°	424.4	11.4
20°-30°	620.2	16.7
30°-40°	704.0	19.0
40°-50°	679.6	18.3
50°-60°	560.6	15.1
60°-70°	373.3	10.1
70°-80°	167.1	4.5
80°-90°	29.9	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°	1195.6	32.2
0°-40°	1899.6	51.2
0°-60°	3139.7	84.6
0°-90°	3710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1603	1602	1596	1587	1582	152
15°	1510	1514	1510	1503	1493	426
25°	1341	1352	1358	1348	1336	614
35°	1079	1094	1143	1150	1145	676
45°	835	849	877	917	922	644
55°	585	595	624	658	677	522
65°	343	352	373	399	422	340
75°	138	145	155	163	172	150
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°	1604.5	1604.5	1604.5	1604.5	1604.5
2.5°	1608.8	1609.4	1605.7	1595.8	1589.7
5°	1602.6	1602.0	1595.8	1587.2	1582.3
7.5°	1584.8	1586.0	1584.1	1571.8	1565.0
10°	1567.5	1568.1	1563.2	1553.3	1545.3
12.5°	1545.3	1544.7	1537.9	1533.0	1520.0
15°	1510.2	1513.9	1510.2	1503.4	1492.9
17.5°	1476.3	1476.3	1478.7	1467.0	1459.0
20°	1438.1	1439.9	1439.9	1430.7	1421.4
22.5°	1393.7	1399.2	1401.1	1391.2	1380.1
25°	1341.3	1351.8	1357.9	1348.1	1336.3
27.5°	1277.8	1293.8	1312.3	1304.9	1292.0
30°	1206.9	1230.3	1261.1	1255.0	1245.7
32.5°	1139.7	1163.1	1205.7	1203.2	1198.3
35°	1078.7	1093.5	1143.4	1149.6	1145.3
37.5°	1020.8	1034.3	1081.2	1095.3	1091.6
40°	959.7	974.5	1011.5	1036.8	1038.0
42.5°	899.3	913.5	943.7	980.1	980.1
45°	835.2	849.4	877.1	917.2	922.1
47.5°	772.3	787.1	814.3	854.3	862.3
50°	710.7	724.3	751.4	790.2	802.5
52.5°	646.6	661.4	687.9	723.6	741.5
55°	585.0	594.8	623.8	658.3	677.4
57.5°	520.9	530.1	562.8	592.4	612.1
60°	459.2	470.9	496.2	526.4	549.2
62.5°	400.0	412.4	433.9	460.4	486.3
65°	342.7	352.0	372.9	399.4	422.2
67.5°	287.2	295.3	316.2	334.7	358.7
70°	231.1	241.6	257.0	274.9	290.3
72.5°	186.2	190.5	203.4	216.4	232.4
75°	137.5	144.9	155.3	162.7	172.0
77.5°	98.6	102.9	109.1	115.3	123.9
80°	66.0	67.8	73.4	74.6	81.4
82.5°	40.1	41.3	42.5	43.1	45.6
85°	21.6	21.6	21.6	20.3	20.3
87.5°	12.3	12.3	10.5	8.6	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)