

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: P556137

Luminaire Tested: **FUSL-12-2-LD4-3STD-50-UNV-93-88-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: P556137
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

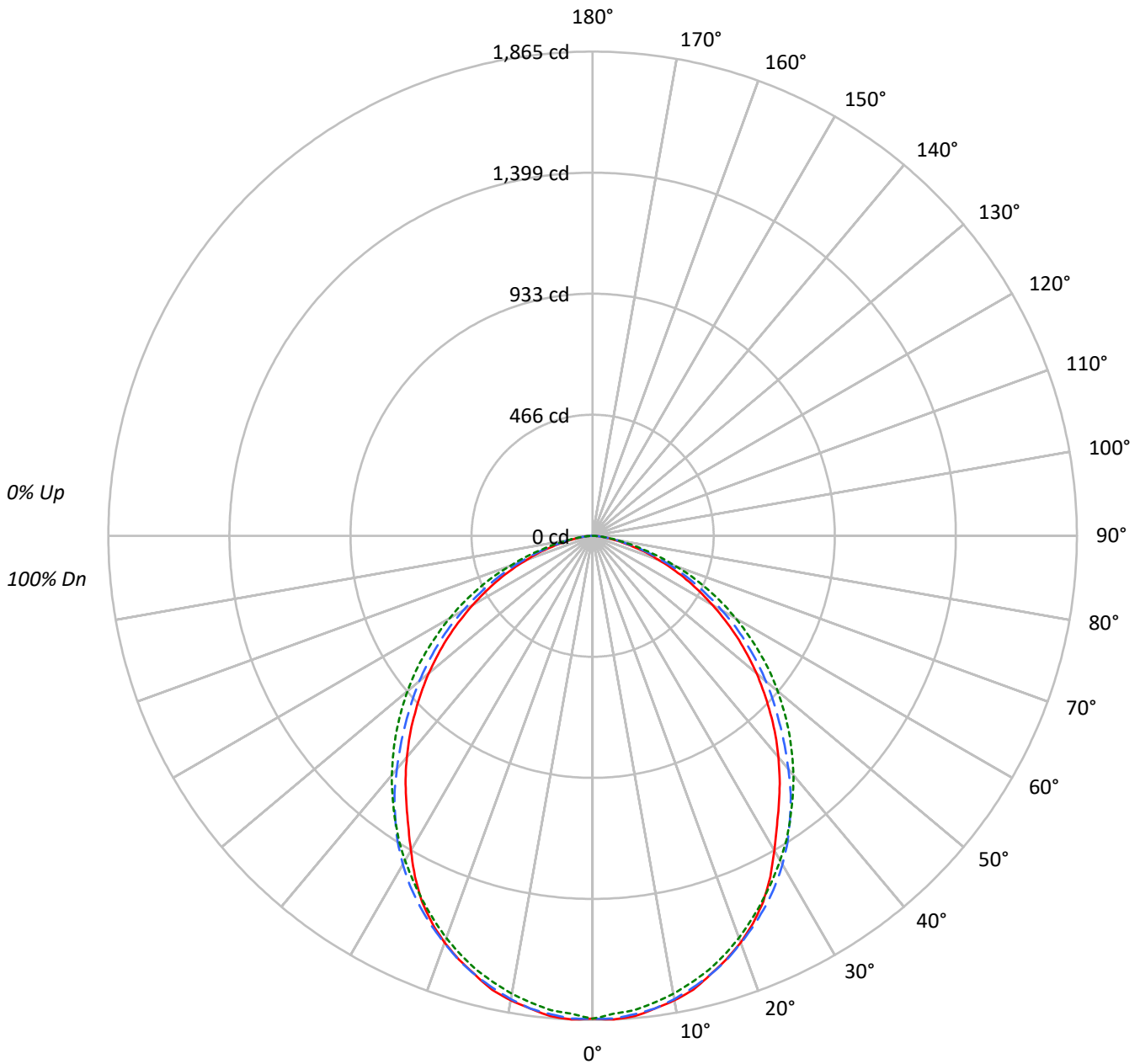
Lumens per Lamp: N/A
Luminaire Lumens: 4301.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10011	10011	10011
5°	10037	9995	9910
10°	9931	9904	9791
15°	9755	9755	9643
20°	9548	9561	9438
25°	9234	9348	9200
30°	8695	9086	8975
35°	8216	8709	8723
40°	7817	8238	8455
45°	7370	7740	8136
50°	6898	7294	7790
55°	6363	6786	7369
60°	5731	6191	6853
65°	5060	5505	6234
70°	4217	4689	5297
75°	3315	3745	4146
80°	2371	2634	2923
85°	1544	1544	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	4.1
10°-20°	492.0	11.4
20°-30°	719.0	16.7
30°-40°	816.1	19.0
40°-50°	787.8	18.3
50°-60°	649.9	15.1
60°-70°	432.8	10.1
70°-80°	193.7	4.5
80°-90°	34.6	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°	1386.1	32.2
0°-40°	2202.2	51.2
0°-60°	3639.9	84.6
0°-90°	4301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1858	1857	1850	1840	1834	176
15°	1751	1755	1751	1743	1731	494
25°	1555	1567	1574	1563	1549	712
35°	1250	1268	1326	1333	1328	784
45°	968	985	1017	1063	1069	747
55°	678	690	723	763	785	605
65°	397	408	432	463	490	394
75°	159	168	180	189	199	174
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.1	1860.1	1860.1	1860.1	1860.1
2.5°	1865.1	1865.8	1861.5	1850.1	1842.9
5°	1857.9	1857.2	1850.1	1840.1	1834.3
7.5°	1837.2	1838.6	1836.5	1822.2	1814.3
10°	1817.2	1817.9	1812.2	1800.8	1791.5
12.5°	1791.5	1790.8	1782.9	1777.2	1762.2
15°	1750.7	1755.0	1750.7	1742.9	1730.7
17.5°	1711.4	1711.4	1714.3	1700.7	1691.4
20°	1667.1	1669.3	1669.3	1658.6	1647.8
22.5°	1615.7	1622.1	1624.3	1612.8	1600.0
25°	1554.9	1567.1	1574.2	1562.8	1549.2
27.5°	1481.3	1499.9	1521.4	1512.8	1497.8
30°	1399.2	1426.3	1462.0	1454.9	1444.2
32.5°	1321.3	1348.4	1397.7	1394.9	1389.2
35°	1250.5	1267.7	1325.6	1332.7	1327.7
37.5°	1183.4	1199.1	1253.4	1269.8	1265.5
40°	1112.6	1129.8	1172.6	1201.9	1203.4
42.5°	1042.6	1059.0	1094.0	1136.2	1136.2
45°	968.3	984.7	1016.9	1063.3	1069.0
47.5°	895.4	912.5	944.0	990.4	999.7
50°	823.9	839.6	871.1	916.1	930.4
52.5°	749.6	766.8	797.5	838.9	859.6
55°	678.1	689.6	723.2	763.2	785.3
57.5°	603.8	614.5	652.4	686.7	709.6
60°	532.4	545.9	575.2	610.3	636.7
62.5°	463.8	478.1	503.1	533.8	563.8
65°	397.3	408.0	432.3	463.1	489.5
67.5°	333.0	342.3	366.6	388.0	415.9
70°	268.0	280.1	298.0	318.7	336.6
72.5°	215.8	220.8	235.8	250.8	269.4
75°	159.4	167.9	180.1	188.7	199.4
77.5°	114.3	119.3	126.5	133.6	143.6
80°	76.5	78.6	85.0	86.5	94.3
82.5°	46.4	47.9	49.3	50.0	52.9
85°	25.0	25.0	25.0	23.6	23.6
87.5°	14.3	14.3	12.1	10.0	7.1
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)