

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: P555903

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-97-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: P555903
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-80-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

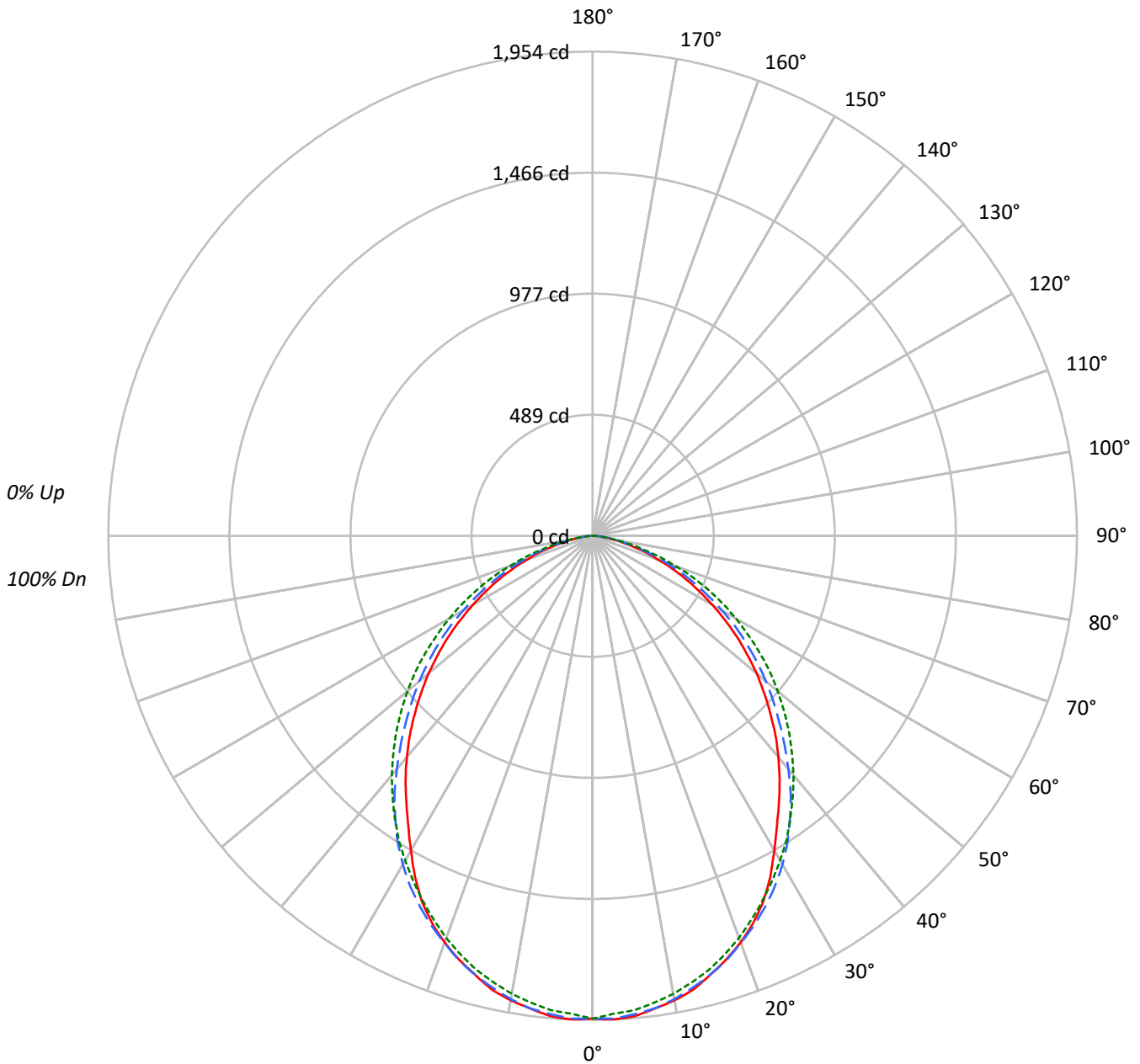
Lumens per Lamp: N/A
Luminaire Lumens: 4506.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	10488	10488	10488
5°	10516	10471	10383
10°	10404	10376	10257
15°	10220	10220	10103
20°	10003	10016	9888
25°	9674	9794	9639
30°	9110	9519	9403
35°	8608	9124	9139
40°	8189	8631	8857
45°	7721	8108	8525
50°	7227	7641	8161
55°	6667	7109	7720
60°	6003	6487	7180
65°	5300	5768	6530
70°	4417	4913	5548
75°	3471	3924	4344
80°	2483	2762	3062
85°	1618	1618	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	4.1
10°-20°	515.4	11.4
20°-30°	753.2	16.7
30°-40°	855.0	19.0
40°-50°	825.4	18.3
50°-60°	680.9	15.1
60°-70°	453.4	10.1
70°-80°	202.9	4.5
80°-90°	36.3	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°	1452.2	32.2
0°-40°	2307.2	51.2
0°-60°	3813.4	84.6
0°-90°	4506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1946	1946	1938	1928	1922	184
15°	1834	1839	1834	1826	1813	517
25°	1629	1642	1649	1637	1623	746
35°	1310	1328	1389	1396	1391	821
45°	1014	1032	1065	1114	1120	783
55°	710	722	758	800	823	634
65°	416	428	453	485	513	413
75°	167	176	189	198	209	183
85°	26	26	26	25	25	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1948.7	1948.7	1948.7	1948.7	1948.7
2.5°	1954.0	1954.7	1950.2	1938.2	1930.8
5°	1946.5	1945.7	1938.2	1927.8	1921.8
7.5°	1924.8	1926.3	1924.0	1909.1	1900.8
10°	1903.8	1904.6	1898.6	1886.6	1876.9
12.5°	1876.9	1876.1	1867.9	1861.9	1846.2
15°	1834.2	1838.7	1834.2	1826.0	1813.2
17.5°	1793.0	1793.0	1796.0	1781.8	1772.0
20°	1746.6	1748.8	1748.8	1737.6	1726.4
22.5°	1692.7	1699.4	1701.7	1689.7	1676.2
25°	1629.1	1641.8	1649.3	1637.3	1623.1
27.5°	1551.9	1571.4	1593.9	1584.9	1569.2
30°	1465.9	1494.3	1531.7	1524.2	1513.0
32.5°	1384.2	1412.7	1464.4	1461.4	1455.4
35°	1310.1	1328.1	1388.7	1396.2	1391.0
37.5°	1239.8	1256.2	1313.1	1330.3	1325.9
40°	1165.6	1183.6	1228.5	1259.2	1260.7
42.5°	1092.3	1109.5	1146.2	1190.3	1190.3
45°	1014.4	1031.6	1065.3	1114.0	1120.0
47.5°	938.1	956.0	989.0	1037.6	1047.4
50°	863.2	879.7	912.6	959.8	974.7
52.5°	785.3	803.3	835.5	878.9	900.6
55°	710.5	722.4	757.6	799.6	822.8
57.5°	632.6	643.8	683.5	719.4	743.4
60°	557.7	572.0	602.7	639.3	667.0
62.5°	485.9	500.8	527.0	559.2	590.7
65°	416.2	427.5	452.9	485.1	512.8
67.5°	348.9	358.6	384.1	406.5	435.7
70°	280.7	293.5	312.2	333.9	352.6
72.5°	226.1	231.3	247.1	262.8	282.2
75°	166.9	175.9	188.7	197.6	208.9
77.5°	119.8	125.0	132.5	140.0	150.5
80°	80.1	82.4	89.1	90.6	98.8
82.5°	48.7	50.2	51.7	52.4	55.4
85°	26.2	26.2	26.2	24.7	24.7
87.5°	15.0	15.0	12.7	10.5	7.5
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)