

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: P556053

Luminaire Tested: **FUSL-12-2-LD4-3STD-40-UNV-82-86-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: P556053
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-40-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

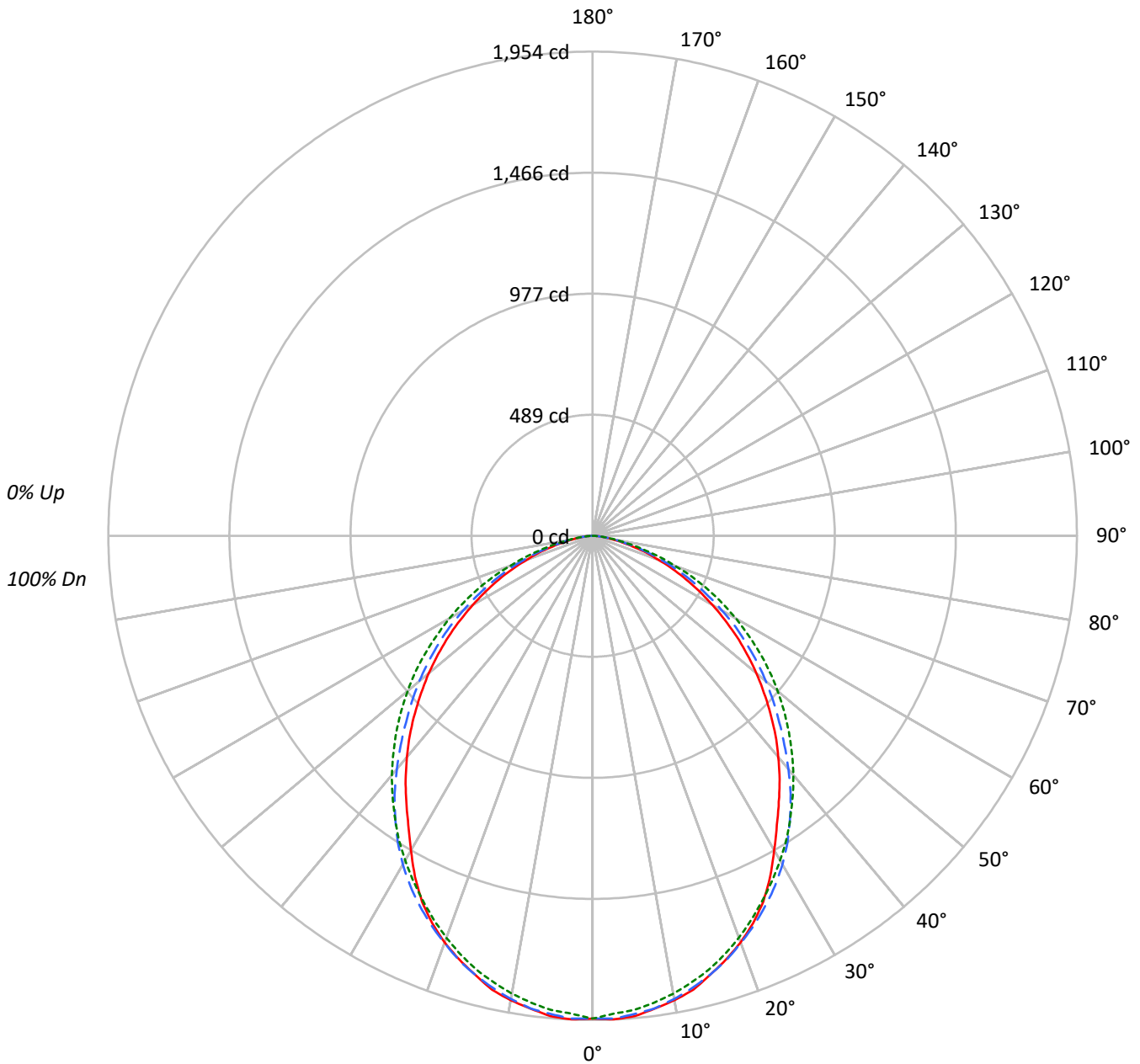
Lumens per Lamp: N/A
Luminaire Lumens: 4505.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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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CATALOG NUMBER: FUSL-12-2-LD4-3STD-40-UNV-82-86-EDD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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°	10486	10486	10486
5°	10514	10469	10380
10°	10402	10373	10254
15°	10218	10218	10101
20°	10001	10014	9885
25°	9672	9792	9636
30°	9107	9517	9401
35°	8606	9122	9137
40°	8188	8630	8855
45°	7719	8107	8522
50°	7226	7639	8159
55°	6665	7108	7719
60°	6002	6485	7178
65°	5300	5766	6529
70°	4417	4911	5547
75°	3471	3922	4342
80°	2483	2762	3062
85°	1618	1618	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	4.1
10°-20°	515.3	11.4
20°-30°	753.1	16.7
30°-40°	854.8	19.0
40°-50°	825.2	18.3
50°-60°	680.7	15.1
60°-70°	453.3	10.1
70°-80°	202.8	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°	1451.8	32.2
0°-40°	2306.6	51.2
0°-60°	3812.5	84.6
0°-90°	4505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1946	1945	1938	1927	1921	184
15°	1834	1838	1834	1826	1813	517
25°	1629	1641	1649	1637	1623	746
35°	1310	1328	1388	1396	1391	821
45°	1014	1031	1065	1114	1120	782
55°	710	722	758	799	823	634
65°	416	427	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°	1948.3	1948.3	1948.3	1948.3	1948.3
2.5°	1953.5	1954.3	1949.8	1937.8	1930.3
5°	1946.1	1945.3	1937.8	1927.3	1921.4
7.5°	1924.3	1925.8	1923.6	1908.6	1900.4
10°	1903.4	1904.1	1898.1	1886.2	1876.4
12.5°	1876.4	1875.7	1867.5	1861.5	1845.8
15°	1833.8	1838.3	1833.8	1825.5	1812.8
17.5°	1792.6	1792.6	1795.6	1781.4	1771.7
20°	1746.2	1748.5	1748.5	1737.2	1726.0
22.5°	1692.3	1699.1	1701.3	1689.3	1675.8
25°	1628.7	1641.4	1648.9	1636.9	1622.7
27.5°	1551.6	1571.1	1593.5	1584.5	1568.8
30°	1465.5	1494.0	1531.4	1523.9	1512.7
32.5°	1383.9	1412.4	1464.0	1461.0	1455.0
35°	1309.8	1327.8	1388.4	1395.9	1390.7
37.5°	1239.5	1256.0	1312.8	1330.1	1325.6
40°	1165.4	1183.3	1228.3	1258.9	1260.4
42.5°	1092.0	1109.2	1145.9	1190.1	1190.1
45°	1014.2	1031.4	1065.1	1113.7	1119.7
47.5°	937.8	955.8	988.7	1037.4	1047.1
50°	863.0	879.5	912.4	959.6	974.5
52.5°	785.2	803.1	835.3	878.7	900.4
55°	710.3	722.3	757.5	799.4	822.6
57.5°	632.5	643.7	683.4	719.3	743.2
60°	557.6	571.8	602.5	639.2	666.9
62.5°	485.8	500.7	526.9	559.1	590.6
65°	416.2	427.4	452.8	485.0	512.7
67.5°	348.8	358.5	384.0	406.4	435.6
70°	280.7	293.4	312.1	333.8	352.5
72.5°	226.0	231.3	247.0	262.7	282.2
75°	166.9	175.9	188.6	197.6	208.8
77.5°	119.8	125.0	132.5	140.0	150.4
80°	80.1	82.3	89.1	90.6	98.8
82.5°	48.7	50.1	51.6	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)