

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: P555895

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-80-87-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: P555895
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-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

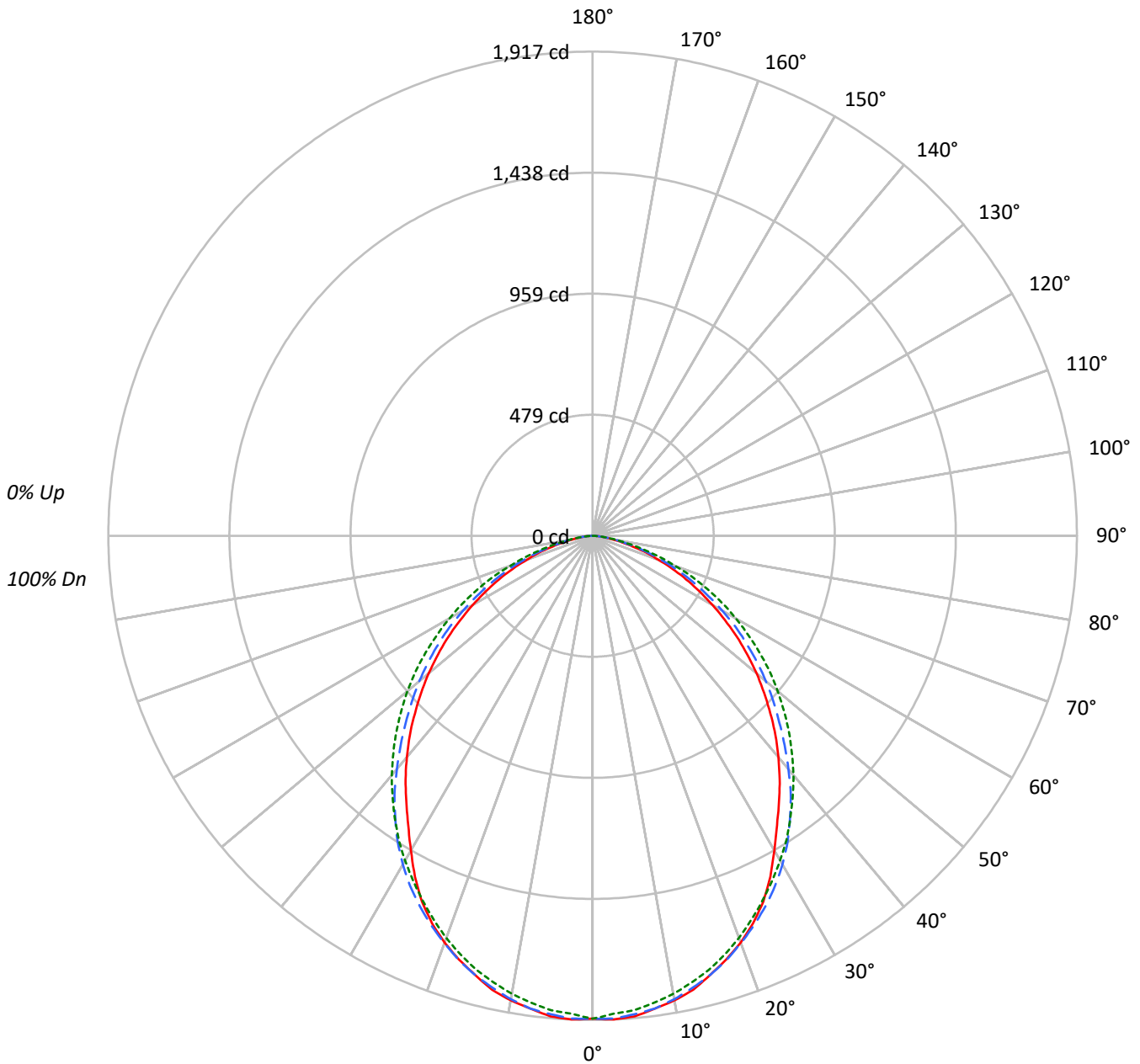
Lumens per Lamp: N/A
Luminaire Lumens: 4421.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10290	10290	10290
5°	10318	10274	10186
10°	10208	10180	10064
15°	10027	10027	9912
20°	9814	9828	9701
25°	9491	9609	9456
30°	8938	9339	9225
35°	8445	8952	8966
40°	8035	8469	8690
45°	7575	7955	8363
50°	7091	7497	8008
55°	6541	6975	7574
60°	5890	6365	7045
65°	5201	5659	6407
70°	4334	4820	5445
75°	3406	3849	4261
80°	2436	2709	3006
85°	1587	1587	1494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	4.1
10°-20°	505.7	11.4
20°-30°	739.0	16.7
30°-40°	838.9	19.0
40°-50°	809.8	18.3
50°-60°	668.0	15.1
60°-70°	444.8	10.1
70°-80°	199.1	4.5
80°-90°	35.6	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°	1424.8	32.2
0°-40°	2263.6	51.2
0°-60°	3741.5	84.6
0°-90°	4421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1910	1909	1902	1891	1886	181
15°	1800	1804	1800	1792	1779	507
25°	1598	1611	1618	1606	1592	732
35°	1285	1303	1362	1370	1365	805
45°	995	1012	1045	1093	1099	768
55°	697	709	743	784	807	622
65°	408	419	444	476	503	405
75°	164	173	185	194	205	179
85°	26	26	26	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.0	1912.0	1912.0	1912.0	1912.0
2.5°	1917.1	1917.8	1913.4	1901.7	1894.3
5°	1909.8	1909.0	1901.7	1891.4	1885.5
7.5°	1888.5	1889.9	1887.7	1873.0	1865.0
10°	1867.9	1868.6	1862.8	1851.0	1841.5
12.5°	1841.5	1840.7	1832.6	1826.8	1811.3
15°	1799.6	1804.0	1799.6	1791.5	1779.0
17.5°	1759.2	1759.2	1762.1	1748.2	1738.6
20°	1713.6	1715.9	1715.9	1704.8	1693.8
22.5°	1660.8	1667.4	1669.6	1657.8	1644.6
25°	1598.3	1610.8	1618.2	1606.4	1592.4
27.5°	1522.7	1541.8	1563.8	1555.0	1539.6
30°	1438.2	1466.1	1502.8	1495.5	1484.5
32.5°	1358.1	1386.0	1436.7	1433.8	1427.9
35°	1285.4	1303.0	1362.5	1369.9	1364.7
37.5°	1216.4	1232.5	1288.4	1305.3	1300.8
40°	1143.7	1161.3	1205.4	1235.5	1236.9
42.5°	1071.7	1088.6	1124.6	1167.9	1167.9
45°	995.3	1012.2	1045.2	1093.0	1098.8
47.5°	920.4	938.0	970.3	1018.1	1027.6
50°	846.9	863.1	895.4	941.7	956.4
52.5°	770.5	788.1	819.7	862.3	883.6
55°	697.1	708.8	743.3	784.5	807.2
57.5°	620.7	631.7	670.6	705.9	729.4
60°	547.2	561.2	591.3	627.3	654.5
62.5°	476.7	491.4	517.1	548.7	579.5
65°	408.4	419.4	444.4	476.0	503.1
67.5°	342.3	351.8	376.8	398.8	427.5
70°	275.4	287.9	306.3	327.6	346.0
72.5°	221.8	227.0	242.4	257.8	276.9
75°	163.8	172.6	185.1	193.9	204.9
77.5°	117.5	122.7	130.0	137.4	147.6
80°	78.6	80.8	87.4	88.9	97.0
82.5°	47.7	49.2	50.7	51.4	54.4
85°	25.7	25.7	25.7	24.2	24.2
87.5°	14.7	14.7	12.5	10.3	7.3
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)