

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: P557179

Luminaire Tested: **FUSL-12-4-LD4-2LO-30-UNV-80-94-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: P557179
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-12-4-LD4-2LO-30-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

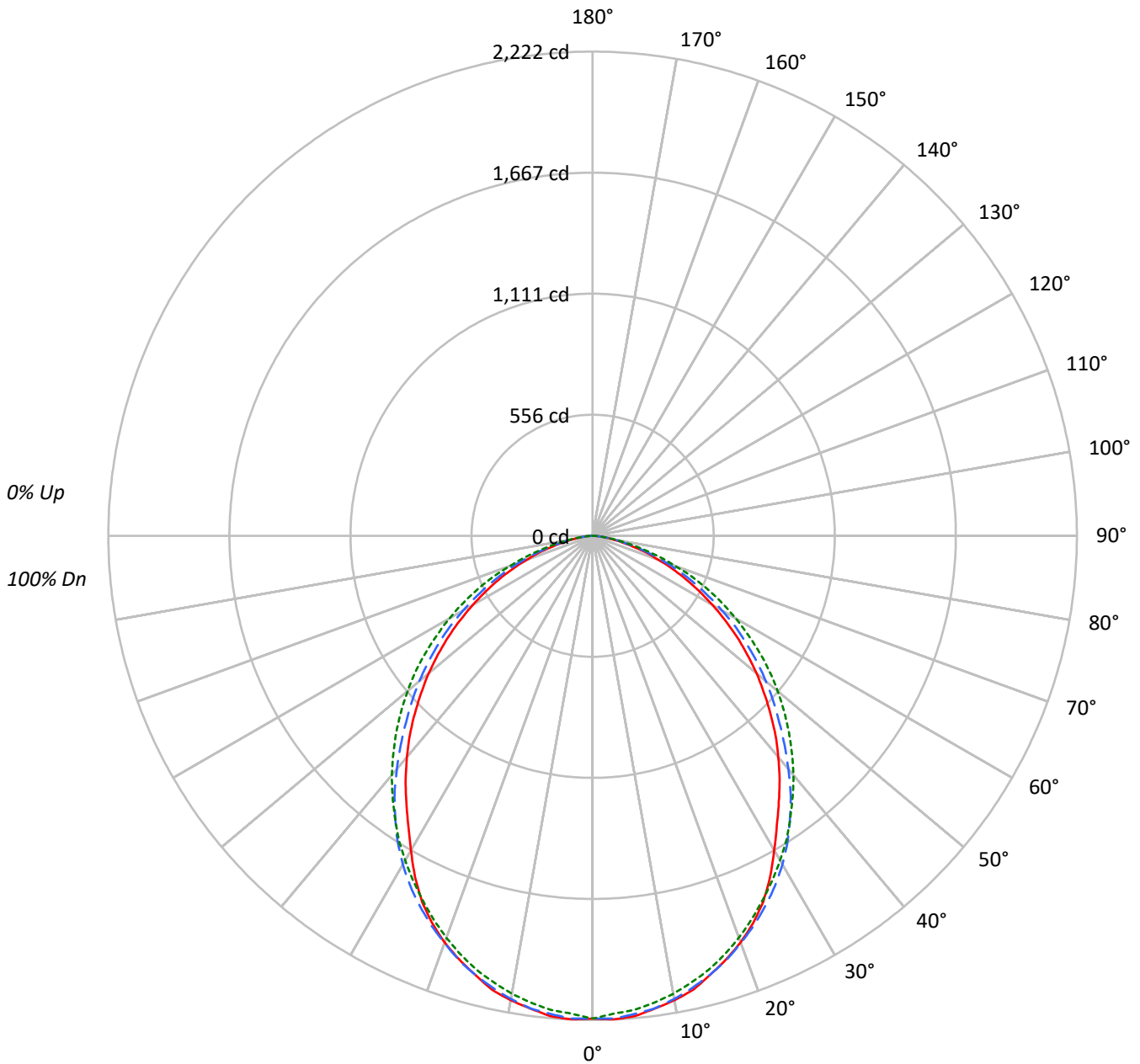
Lumens per Lamp: N/A
Luminaire Lumens: 5123.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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

TEST NUMBER: P557179

CATALOG NUMBER: FUSL-12-4-LD4-2LO-30-UNV-80-94-EDD

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°	5962	5962	5962
5°	5978	5952	5902
10°	5914	5898	5831
15°	5809	5809	5743
20°	5687	5694	5621
25°	5499	5567	5479
30°	5179	5411	5345
35°	4893	5187	5195
40°	4656	4907	5035
45°	4389	4609	4846
50°	4109	4344	4639
55°	3789	4041	4389
60°	3413	3688	4082
65°	3013	3279	3712
70°	2511	2792	3154
75°	1973	2230	2469
80°	1412	1570	1742
85°	920	920	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	4.1
10°-20°	586.0	11.4
20°-30°	856.4	16.7
30°-40°	972.1	19.0
40°-50°	938.4	18.3
50°-60°	774.1	15.1
60°-70°	515.5	10.1
70°-80°	230.7	4.5
80°-90°	41.3	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°	1651.0	32.2
0°-40°	2623.1	51.2
0°-60°	4335.6	84.6
0°-90°	5123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2216	2216	2216	2216	2216	
5°	2213	2212	2204	2192	2185	209
15°	2085	2090	2085	2076	2062	588
25°	1852	1867	1875	1862	1845	848
35°	1490	1510	1579	1587	1582	933
45°	1153	1173	1211	1266	1273	890
55°	808	821	861	909	935	721
65°	473	486	515	552	583	469
75°	190	200	214	225	238	208
85°	30	30	30	28	28	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2215.6	2215.6	2215.6	2215.6	2215.6
2.5°	2221.5	2222.4	2217.3	2203.6	2195.1
5°	2213.0	2212.2	2203.6	2191.7	2184.9
7.5°	2188.3	2190.0	2187.5	2170.5	2161.1
10°	2164.5	2165.3	2158.5	2144.9	2133.9
12.5°	2133.9	2133.0	2123.6	2116.8	2099.0
15°	2085.3	2090.4	2085.3	2076.0	2061.5
17.5°	2038.5	2038.5	2041.9	2025.8	2014.7
20°	1985.8	1988.3	1988.3	1975.5	1962.8
22.5°	1924.5	1932.1	1934.7	1921.1	1905.7
25°	1852.1	1866.6	1875.1	1861.5	1845.3
27.5°	1764.5	1786.6	1812.1	1801.9	1784.0
30°	1666.6	1698.9	1741.5	1733.0	1720.2
32.5°	1573.8	1606.1	1664.9	1661.5	1654.7
35°	1489.5	1510.0	1578.9	1587.4	1581.5
37.5°	1409.5	1428.2	1492.9	1512.5	1507.4
40°	1325.3	1345.7	1396.8	1431.6	1433.4
42.5°	1241.8	1261.4	1303.1	1353.3	1353.3
45°	1153.3	1172.9	1211.2	1266.5	1273.3
47.5°	1066.5	1086.9	1124.4	1179.7	1190.8
50°	981.4	1000.1	1037.6	1091.2	1108.2
52.5°	892.9	913.3	949.9	999.3	1023.9
55°	807.7	821.4	861.4	909.0	935.4
57.5°	719.2	732.0	777.1	818.0	845.2
60°	634.1	650.3	685.2	726.9	758.4
62.5°	552.4	569.4	599.2	635.8	671.6
65°	473.2	486.0	515.0	551.6	583.0
67.5°	396.6	407.7	436.6	462.2	495.4
70°	319.2	333.7	354.9	379.6	400.9
72.5°	257.0	263.0	280.9	298.8	320.9
75°	189.8	200.0	214.5	224.7	237.5
77.5°	136.2	142.1	150.7	159.2	171.1
80°	91.1	93.6	101.3	103.0	112.4
82.5°	55.3	57.0	58.7	59.6	63.0
85°	29.8	29.8	29.8	28.1	28.1
87.5°	17.0	17.0	14.5	11.9	8.5
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)