

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: P489817

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-27-120-EDD**

Issue Date: 3/11/2021

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: P489817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-P12125-LD4-2STD-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

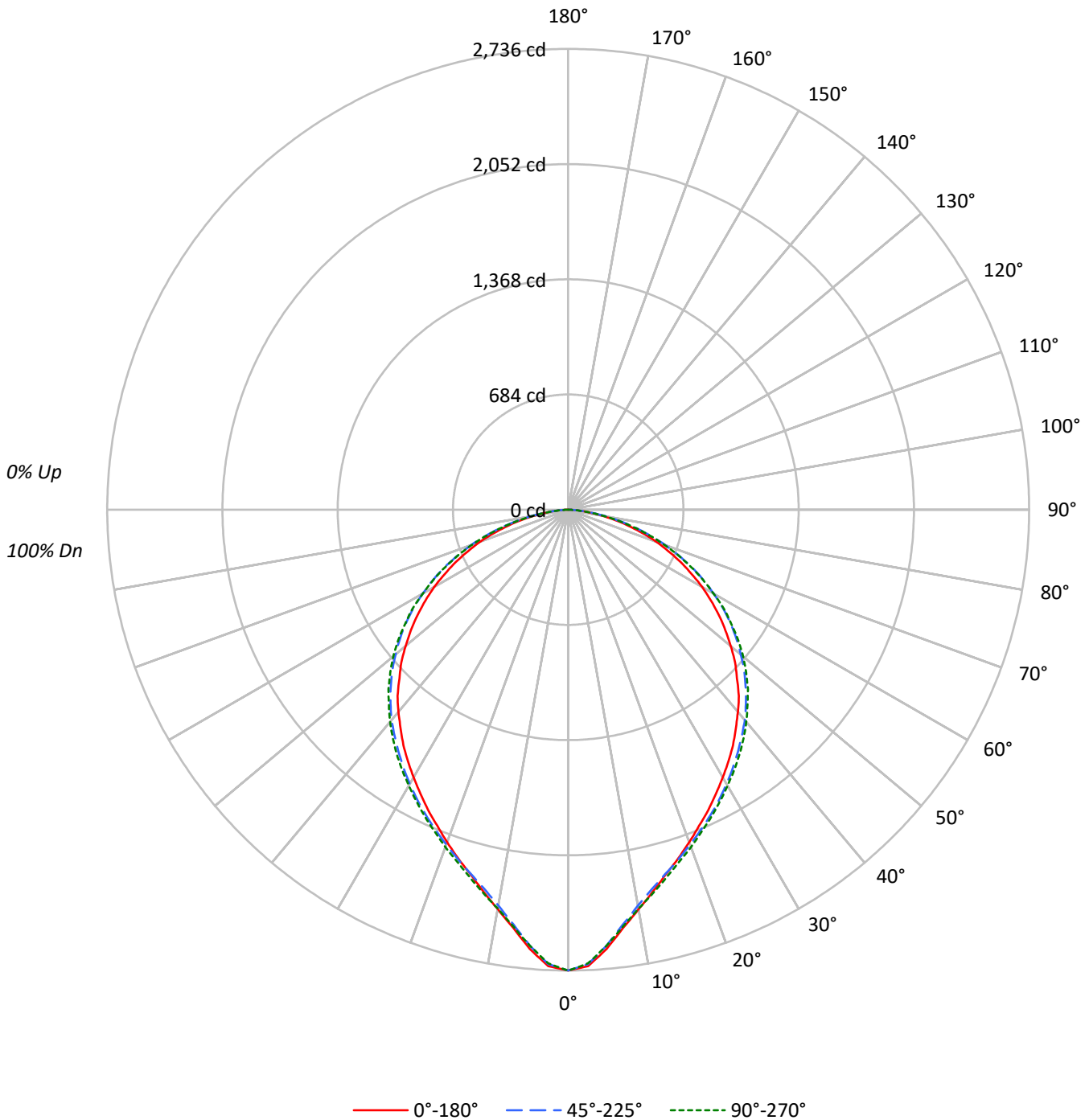
Lumens per Lamp: N/A
Luminaire Lumens: 6354.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3681	3681	3681
5°	3534	3510	3510
10°	3290	3260	3285
15°	3121	3116	3146
20°	3007	3029	3052
25°	2921	2969	2986
30°	2851	2921	2939
35°	2802	2884	2913
40°	2752	2864	2888
45°	2695	2836	2870
50°	2636	2801	2838
55°	2563	2760	2771
60°	2471	2684	2679
65°	2342	2581	2564
70°	2186	2407	2377
75°	1930	2132	2111
80°	1567	1737	1653
85°	1087	1108	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	3.8
10°-20°	633.2	10.0
20°-30°	920.8	14.5
30°-40°	1095.8	17.2
40°-50°	1137.8	17.9
50°-60°	1030.8	16.2
60°-70°	777.8	12.2
70°-80°	423.8	6.7
80°-90°	93.1	1.5
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°	1795.8	28.3
0°-40°	2891.6	45.5
0°-60°	5060.2	79.6
0°-90°	6354.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6354.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2736	2736	2736	2736	2736	
5°	2617	2611	2598	2597	2598	243
15°	2241	2235	2237	2252	2259	633
25°	1968	1984	2000	2016	2011	907
35°	1706	1726	1756	1782	1773	1066
45°	1416	1442	1490	1507	1508	1095
55°	1092	1118	1176	1185	1181	975
65°	736	757	811	809	805	727
75°	371	386	410	413	406	395
85°	70	71	72	71	69	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2735.9	2735.9	2735.9	2735.9	2735.9
2.5°	2711.9	2709.2	2700.3	2696.9	2696.2
5°	2616.9	2610.8	2598.5	2597.1	2598.5
7.5°	2503.4	2496.6	2484.3	2489.1	2495.3
10°	2407.7	2390.7	2385.8	2392.7	2404.3
12.5°	2322.3	2308.6	2304.5	2322.3	2330.5
15°	2240.9	2235.4	2236.8	2251.9	2258.7
17.5°	2170.5	2167.1	2176.0	2187.6	2191.0
20°	2100.1	2107.0	2115.2	2127.5	2131.5
22.5°	2031.1	2044.0	2057.7	2074.1	2068.7
25°	1967.5	1983.9	1999.6	2016.0	2011.3
27.5°	1899.8	1918.9	1940.8	1958.6	1951.7
30°	1834.8	1858.8	1880.0	1901.8	1891.6
32.5°	1770.6	1793.2	1818.4	1845.1	1833.5
35°	1705.7	1726.2	1755.6	1782.2	1773.3
37.5°	1633.9	1659.2	1692.6	1715.9	1709.8
40°	1566.9	1590.1	1630.5	1645.5	1644.1
42.5°	1499.2	1518.4	1560.7	1577.8	1575.1
45°	1416.5	1441.8	1490.3	1506.7	1508.1
47.5°	1343.3	1364.5	1416.5	1429.5	1432.2
50°	1259.2	1285.9	1337.9	1353.6	1355.7
52.5°	1176.5	1205.2	1258.6	1269.5	1271.6
55°	1092.4	1118.4	1176.5	1184.8	1181.3
57.5°	1004.3	1035.7	1089.0	1093.1	1096.5
60°	918.1	945.5	997.4	1002.9	995.4
62.5°	824.5	852.5	905.8	907.2	901.0
65°	735.6	756.8	810.8	809.4	805.3
67.5°	642.6	668.6	708.2	709.6	706.2
70°	555.8	573.5	611.8	612.5	604.3
72.5°	462.2	481.3	512.0	507.9	505.9
75°	371.2	386.3	410.2	412.9	406.1
77.5°	287.8	298.7	316.5	314.5	306.9
80°	202.3	211.2	224.2	221.5	213.3
82.5°	129.2	134.7	142.9	139.5	136.0
85°	70.4	71.1	71.8	71.1	69.0
87.5°	26.0	26.7	26.7	26.0	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)