

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: P489824

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-50-120-EDD-90**

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: P489824
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-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

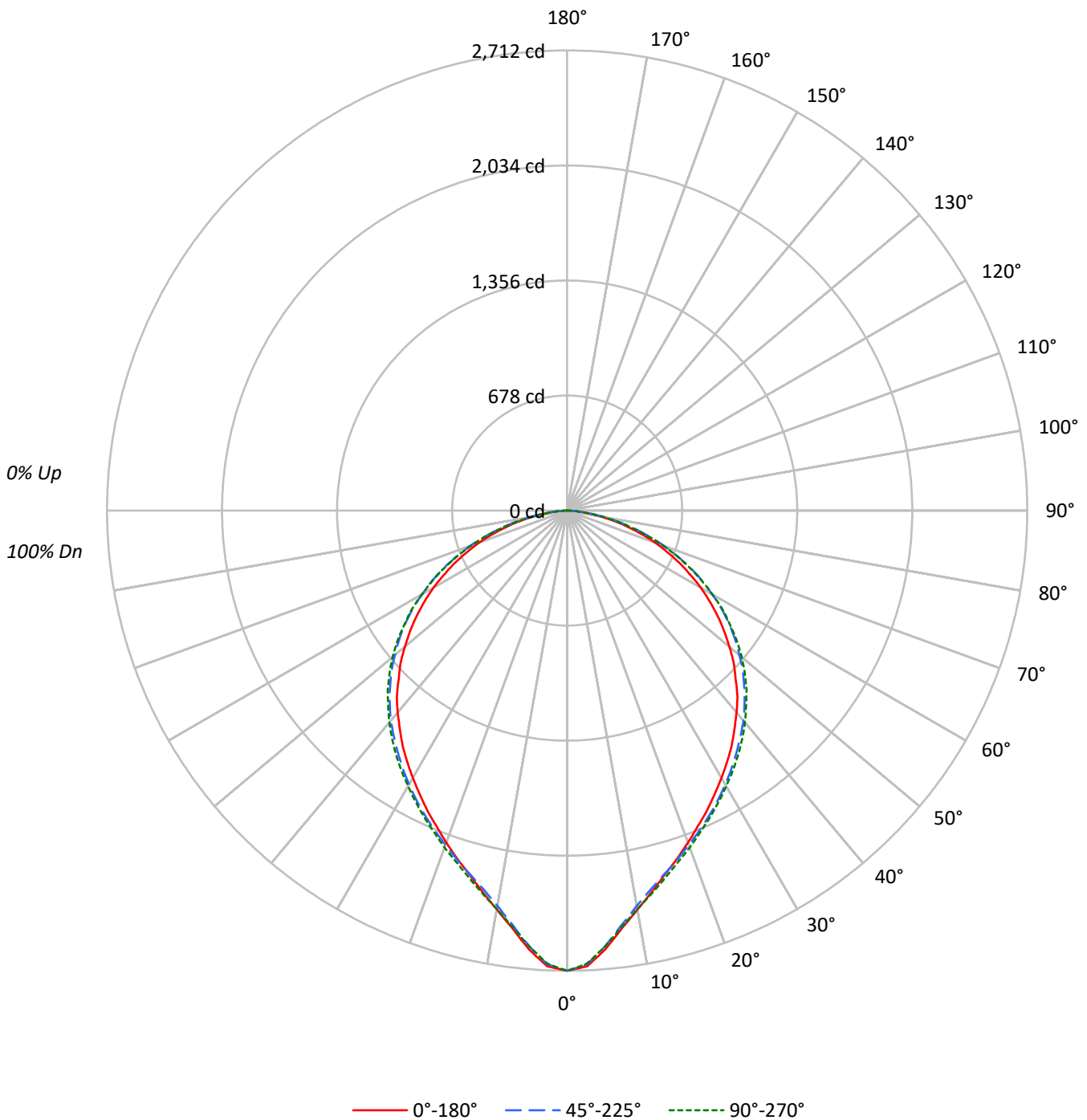
Lumens per Lamp: N/A
Luminaire Lumens: 6299.1 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3649	3649	3649
5°	3504	3479	3479
10°	3261	3231	3256
15°	3094	3088	3119
20°	2981	3002	3025
25°	2895	2943	2960
30°	2826	2895	2913
35°	2777	2858	2887
40°	2728	2839	2862
45°	2672	2811	2845
50°	2613	2776	2813
55°	2540	2736	2747
60°	2449	2661	2655
65°	2321	2558	2541
70°	2167	2386	2356
75°	1913	2114	2092
80°	1554	1722	1638
85°	1078	1098	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	3.8
10°-20°	627.7	10.0
20°-30°	912.8	14.5
30°-40°	1086.2	17.2
40°-50°	1127.8	17.9
50°-60°	1021.7	16.2
60°-70°	771.0	12.2
70°-80°	420.1	6.7
80°-90°	92.3	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°	1780.1	28.3
0°-40°	2866.2	45.5
0°-60°	5015.8	79.6
0°-90°	6299.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6299.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2594	2588	2576	2574	2576	241
15°	2221	2216	2217	2232	2239	627
25°	1950	1966	1982	1998	1994	899
35°	1691	1711	1740	1767	1758	1057
45°	1404	1429	1477	1494	1495	1085
55°	1083	1109	1166	1174	1171	967
65°	729	750	804	802	798	721
75°	368	383	407	409	402	392
85°	70	70	71	70	68	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2711.9	2711.9	2711.9	2711.9	2711.9
2.5°	2688.2	2685.5	2676.7	2673.3	2672.6
5°	2594.0	2587.9	2575.7	2574.4	2575.7
7.5°	2481.5	2474.7	2462.6	2467.3	2473.4
10°	2386.6	2369.7	2364.9	2371.7	2383.2
12.5°	2301.9	2288.4	2284.3	2301.9	2310.1
15°	2221.3	2215.8	2217.2	2232.1	2238.9
17.5°	2151.5	2148.1	2156.9	2168.4	2171.8
20°	2081.7	2088.5	2096.6	2108.8	2112.9
22.5°	2013.3	2026.1	2039.7	2055.9	2050.5
25°	1950.2	1966.5	1982.1	1998.3	1993.6
27.5°	1883.1	1902.1	1923.8	1941.4	1934.6
30°	1818.7	1842.5	1863.5	1885.2	1875.0
32.5°	1755.1	1777.4	1802.5	1828.9	1817.4
35°	1690.7	1711.0	1740.2	1766.6	1757.8
37.5°	1619.6	1644.6	1677.8	1700.8	1694.8
40°	1553.1	1576.2	1616.2	1631.1	1629.7
42.5°	1486.0	1505.1	1547.0	1564.0	1561.3
45°	1404.1	1429.1	1477.2	1493.5	1494.9
47.5°	1331.6	1352.6	1404.1	1416.9	1419.6
50°	1248.2	1274.6	1326.1	1341.7	1343.8
52.5°	1166.2	1194.6	1247.5	1258.3	1260.4
55°	1082.8	1108.6	1166.2	1174.4	1171.0
57.5°	995.5	1026.6	1079.5	1083.5	1086.9
60°	910.0	937.2	988.7	994.1	986.6
62.5°	817.2	845.0	897.9	899.2	893.1
65°	729.1	750.1	803.6	802.3	798.2
67.5°	637.0	662.7	702.0	703.4	700.0
70°	550.9	568.5	606.5	607.2	599.0
72.5°	458.1	477.1	507.5	503.5	501.5
75°	368.0	382.9	406.6	409.3	402.5
77.5°	285.3	296.1	313.8	311.7	304.2
80°	200.6	209.4	222.3	219.6	211.4
82.5°	128.0	133.5	141.6	138.2	134.8
85°	69.8	70.4	71.1	70.4	68.4
87.5°	25.7	26.4	26.4	25.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)