

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: P488850

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-40-120-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: P488850
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-12-4-INS-P12125-LD4-3STD-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

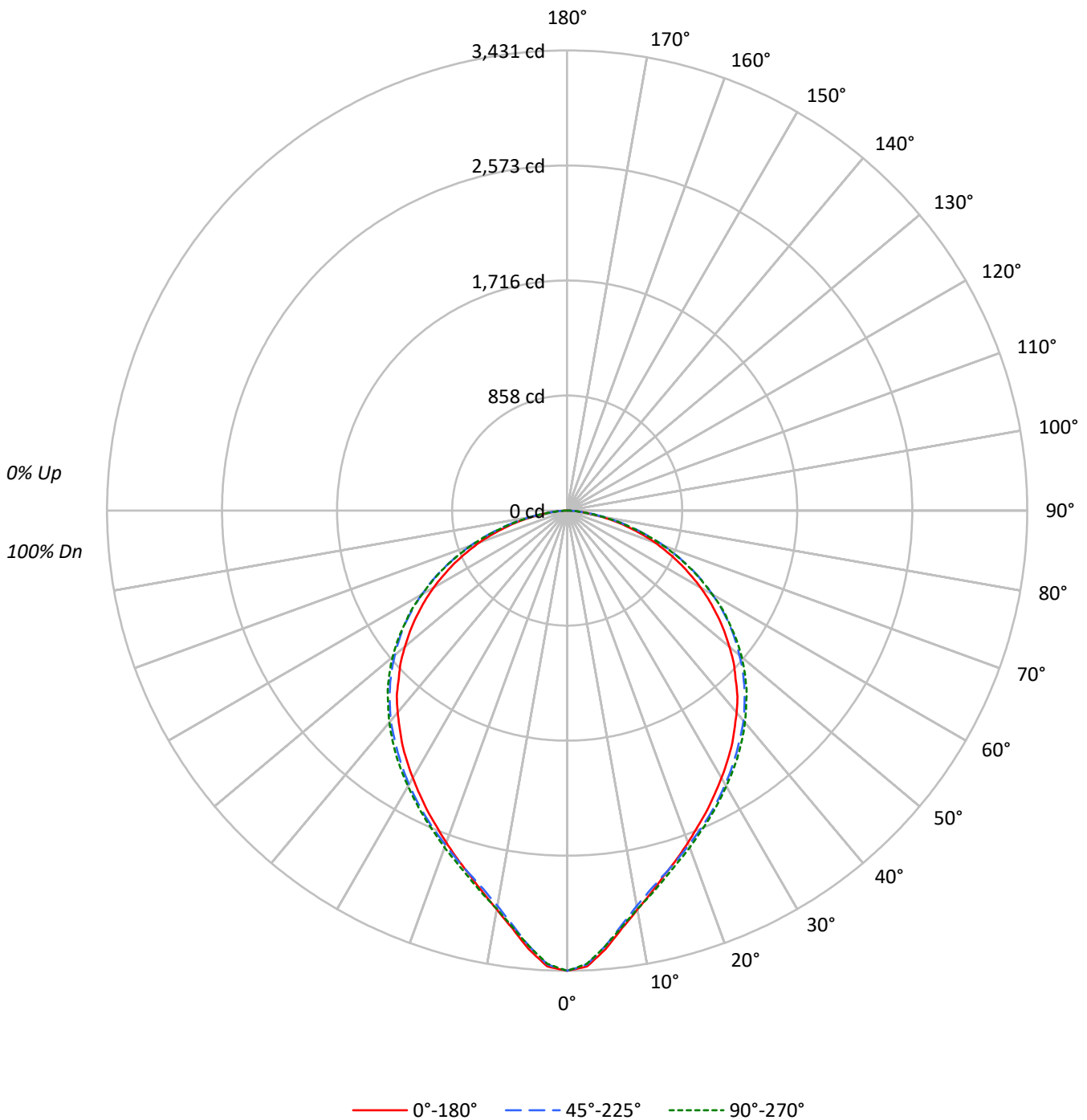
Lumens per Lamp: N/A
Luminaire Lumens: 7970.5 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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

TEST NUMBER: P488850

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488850

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-40-120-EDD-90

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°	9234	9234	9234
5°	8866	8804	8804
10°	8252	8177	8240
15°	7830	7816	7892
20°	7543	7597	7656
25°	7327	7447	7490
30°	7151	7327	7372
35°	7028	7233	7307
40°	6903	7184	7244
45°	6761	7113	7198
50°	6612	7025	7118
55°	6428	6923	6951
60°	6197	6733	6719
65°	5875	6475	6431
70°	5485	6038	5964
75°	4841	5349	5295
80°	3933	4359	4145
85°	2726	2779	2674



TEST NUMBER: P488850

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	3.8
10°-20°	794.2	10.0
20°-30°	1154.9	14.5
30°-40°	1374.3	17.2
40°-50°	1427.0	17.9
50°-60°	1292.8	16.2
60°-70°	975.6	12.2
70°-80°	531.6	6.7
80°-90°	116.8	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°	2252.4	28.3
0°-40°	3626.7	45.5
0°-60°	6346.6	79.6
0°-90°	7970.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7970.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3431	3431	3431	3431	3431	
5°	3282	3274	3259	3257	3259	305
15°	2811	2804	2806	2824	2833	793
25°	2468	2488	2508	2528	2523	1137
35°	2139	2165	2202	2235	2224	1337
45°	1777	1808	1869	1890	1892	1373
55°	1370	1403	1476	1486	1482	1223
65°	923	949	1017	1015	1010	912
75°	466	484	514	518	509	496
85°	88	89	90	89	87	111
90°	0	0	0	0	0	



TEST NUMBER: P488850

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3431.4	3431.4	3431.4	3431.4	3431.4
2.5°	3401.4	3398.0	3386.8	3382.5	3381.6
5°	3282.2	3274.5	3259.1	3257.4	3259.1
7.5°	3139.9	3131.3	3115.9	3121.9	3129.6
10°	3019.9	2998.4	2992.4	3001.0	3015.6
12.5°	2912.6	2895.5	2890.3	2912.6	2923.0
15°	2810.6	2803.8	2805.5	2824.4	2832.9
17.5°	2722.3	2718.0	2729.2	2743.8	2748.1
20°	2634.0	2642.6	2652.9	2668.3	2673.4
22.5°	2547.4	2563.7	2580.9	2601.4	2594.6
25°	2467.7	2488.2	2508.0	2528.5	2522.6
27.5°	2382.8	2406.8	2434.2	2456.5	2447.9
30°	2301.3	2331.3	2357.9	2385.3	2372.5
32.5°	2220.8	2249.0	2280.7	2314.2	2299.6
35°	2139.3	2165.0	2201.9	2235.3	2224.2
37.5°	2049.3	2081.0	2122.9	2152.1	2144.5
40°	1965.2	1994.4	2045.0	2063.8	2062.1
42.5°	1880.3	1904.4	1957.5	1978.9	1975.5
45°	1776.6	1808.3	1869.2	1889.8	1891.5
47.5°	1684.8	1711.4	1776.6	1792.9	1796.3
50°	1579.4	1612.8	1678.0	1697.7	1700.3
52.5°	1475.6	1511.6	1578.5	1592.2	1594.8
55°	1370.1	1402.7	1475.6	1485.9	1481.6
57.5°	1259.6	1299.0	1365.9	1371.0	1375.3
60°	1151.5	1185.8	1251.0	1257.8	1248.4
62.5°	1034.1	1069.2	1136.1	1137.8	1130.1
65°	922.6	949.2	1016.9	1015.2	1010.0
67.5°	805.9	838.5	888.3	890.0	885.8
70°	697.1	719.4	767.4	768.3	758.0
72.5°	579.6	603.6	642.2	637.1	634.5
75°	465.6	484.5	514.5	517.9	509.3
77.5°	361.0	374.7	397.0	394.4	385.0
80°	253.8	264.9	281.3	277.8	267.5
82.5°	162.0	168.9	179.2	174.9	170.6
85°	88.3	89.1	90.0	89.1	86.6
87.5°	32.6	33.5	33.5	32.6	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)