

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: P488846

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-30-120-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: P488846
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-30-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

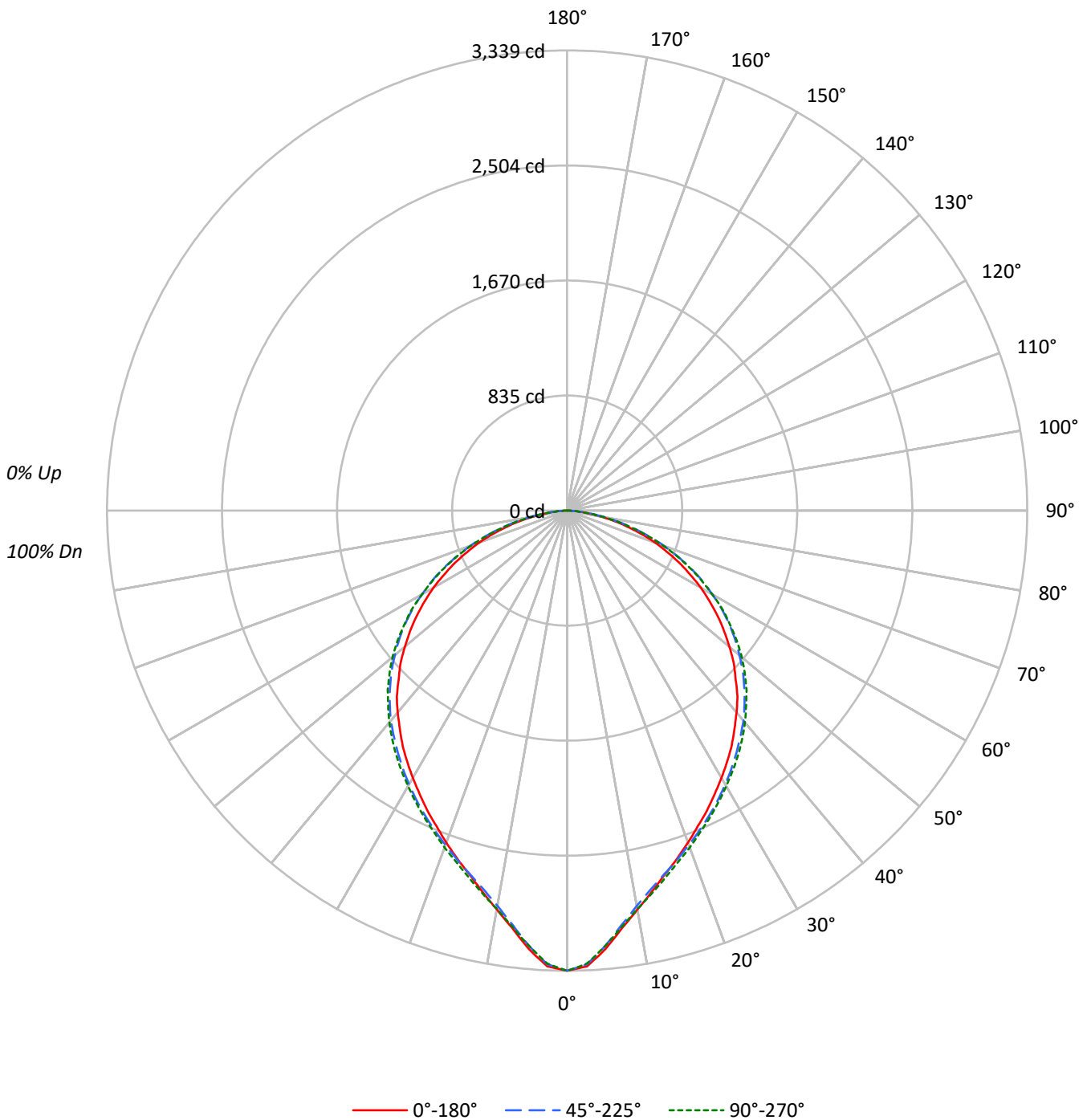
Lumens per Lamp: N/A
Luminaire Lumens: 7755.3 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P488846

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-30-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488846

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-30-120-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	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°	8985	8985	8985
5°	8627	8566	8566
10°	8029	7956	8017
15°	7619	7605	7679
20°	7339	7392	7449
25°	7129	7246	7288
30°	6958	7129	7173
35°	6838	7038	7109
40°	6717	6990	7048
45°	6578	6921	7004
50°	6433	6835	6926
55°	6254	6736	6763
60°	6030	6551	6537
65°	5716	6300	6257
70°	5336	5875	5803
75°	4710	5205	5153
80°	3826	4241	4034
85°	2652	2705	2600



TEST NUMBER: P488846

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	3.8
10°-20°	772.8	10.0
20°-30°	1123.8	14.5
30°-40°	1337.2	17.2
40°-50°	1388.5	17.9
50°-60°	1257.9	16.2
60°-70°	949.2	12.2
70°-80°	517.2	6.7
80°-90°	113.6	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°	2191.6	28.3
0°-40°	3528.8	45.5
0°-60°	6175.2	79.6
0°-90°	7755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7755.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3339	3339	3339	3339	3339	
5°	3194	3186	3171	3169	3171	296
15°	2735	2728	2730	2748	2756	772
25°	2401	2421	2440	2460	2454	1106
35°	2082	2106	2142	2175	2164	1301
45°	1729	1760	1819	1839	1840	1336
55°	1333	1365	1436	1446	1442	1190
65°	898	924	989	988	983	887
75°	453	471	501	504	496	483
85°	86	87	88	87	84	108
90°	0	0	0	0	0	



TEST NUMBER: P488846

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3STD-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3338.8	3338.8	3338.8	3338.8	3338.8
2.5°	3309.6	3306.2	3295.4	3291.2	3290.3
5°	3193.6	3186.1	3171.1	3169.4	3171.1
7.5°	3055.1	3046.7	3031.8	3037.6	3045.1
10°	2938.3	2917.5	2911.6	2920.0	2934.1
12.5°	2834.0	2817.3	2812.3	2834.0	2844.1
15°	2734.7	2728.1	2729.8	2748.1	2756.4
17.5°	2648.8	2644.7	2655.5	2669.7	2673.9
20°	2562.9	2571.3	2581.3	2596.3	2601.3
22.5°	2478.6	2494.5	2511.2	2531.2	2524.5
25°	2401.1	2421.1	2440.3	2460.3	2454.5
27.5°	2318.4	2341.8	2368.5	2390.2	2381.8
30°	2239.2	2268.4	2294.3	2320.9	2308.4
32.5°	2160.8	2188.3	2219.2	2251.7	2237.5
35°	2081.5	2106.5	2142.4	2175.0	2164.1
37.5°	1993.9	2024.8	2065.6	2094.0	2086.6
40°	1912.2	1940.5	1989.8	2008.1	2006.4
42.5°	1829.6	1853.0	1904.7	1925.5	1922.2
45°	1728.6	1759.5	1818.7	1838.8	1840.4
47.5°	1639.4	1665.2	1728.6	1744.5	1747.8
50°	1536.7	1569.3	1632.7	1651.8	1654.4
52.5°	1435.8	1470.8	1535.9	1549.2	1551.8
55°	1333.1	1364.8	1435.8	1445.8	1441.6
57.5°	1225.6	1263.9	1329.0	1334.0	1338.2
60°	1120.4	1153.8	1217.2	1223.9	1214.7
62.5°	1006.2	1040.3	1105.4	1107.1	1099.5
65°	897.7	923.5	989.4	987.8	982.7
67.5°	784.2	815.9	864.3	866.0	861.8
70°	678.2	699.9	746.7	747.5	737.5
72.5°	564.0	587.3	624.8	619.9	617.4
75°	453.0	471.4	500.6	503.9	495.6
77.5°	351.2	364.6	386.3	383.8	374.6
80°	246.9	257.8	273.7	270.3	260.3
82.5°	157.6	164.4	174.4	170.2	166.0
85°	85.9	86.7	87.6	86.7	84.2
87.5°	31.7	32.6	32.6	31.7	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)