

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: P489886

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-20-120-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: P489886
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-LD4-4STD-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

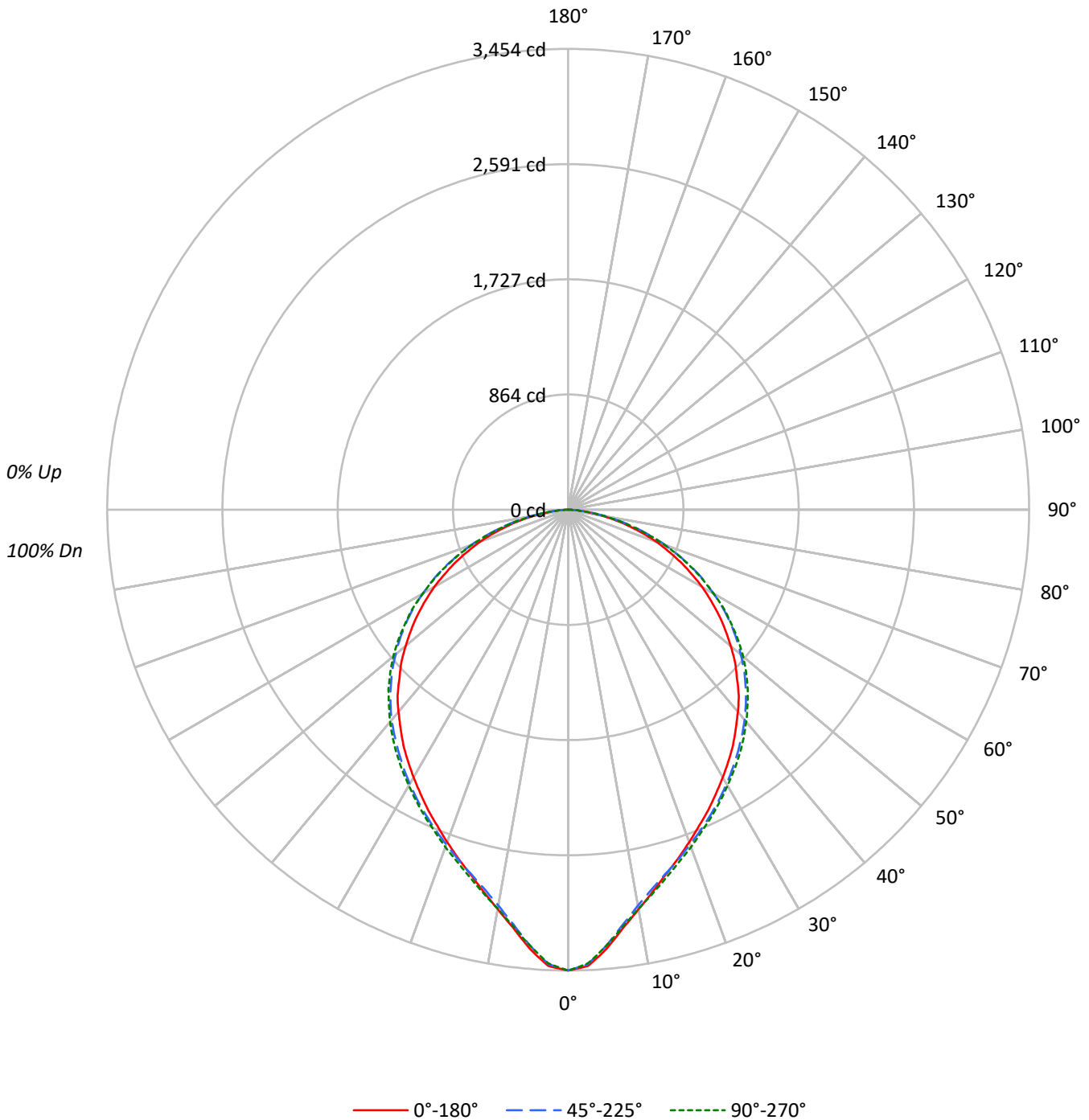
Lumens per Lamp: N/A
Luminaire Lumens: 8021.9 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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: P489886

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489886

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-20-120-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°	4647	4647	4647
5°	4462	4430	4430
10°	4152	4115	4147
15°	3940	3933	3972
20°	3796	3823	3853
25°	3687	3747	3769
30°	3598	3687	3710
35°	3537	3640	3677
40°	3474	3615	3645
45°	3402	3580	3622
50°	3327	3535	3582
55°	3235	3484	3498
60°	3119	3388	3381
65°	2956	3258	3236
70°	2760	3038	3001
75°	2436	2692	2665
80°	1979	2194	2086
85°	1372	1399	1345



TEST NUMBER: P489886

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	3.8
10°-20°	799.3	10.0
20°-30°	1162.4	14.5
30°-40°	1383.2	17.2
40°-50°	1436.3	17.9
50°-60°	1301.2	16.2
60°-70°	981.8	12.2
70°-80°	535.0	6.7
80°-90°	117.6	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°	2266.9	28.3
0°-40°	3650.1	45.5
0°-60°	6387.5	79.6
0°-90°	8021.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8021.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3454	3454	3454	3454	3454	
5°	3303	3296	3280	3278	3280	307
15°	2829	2822	2824	2843	2851	798
25°	2484	2504	2524	2545	2539	1144
35°	2153	2179	2216	2250	2238	1346
45°	1788	1820	1881	1902	1904	1382
55°	1379	1412	1485	1496	1491	1231
65°	928	955	1023	1022	1016	918
75°	469	488	518	521	513	499
85°	89	90	91	90	87	112
90°	0	0	0	0	0	



TEST NUMBER: P489886

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3453.6	3453.6	3453.6	3453.6	3453.6
2.5°	3423.3	3419.9	3408.7	3404.3	3403.5
5°	3303.4	3295.6	3280.1	3278.4	3280.1
7.5°	3160.1	3151.5	3136.0	3142.0	3149.8
10°	3039.3	3017.8	3011.7	3020.3	3035.0
12.5°	2931.4	2914.2	2909.0	2931.4	2941.8
15°	2828.7	2821.8	2823.6	2842.6	2851.2
17.5°	2739.9	2735.6	2746.8	2761.5	2765.8
20°	2651.0	2659.7	2670.0	2685.5	2690.7
22.5°	2563.9	2580.2	2597.5	2618.2	2611.3
25°	2483.6	2504.3	2524.2	2544.9	2538.8
27.5°	2398.1	2422.3	2449.9	2472.4	2463.7
30°	2316.1	2346.4	2373.1	2400.7	2387.8
32.5°	2235.1	2263.5	2295.5	2329.1	2314.4
35°	2153.1	2179.0	2216.1	2249.8	2238.5
37.5°	2062.5	2094.4	2136.6	2166.0	2158.3
40°	1977.9	2007.2	2058.2	2077.2	2075.4
42.5°	1892.4	1916.7	1970.1	1991.7	1988.2
45°	1788.1	1820.0	1881.2	1902.0	1903.7
47.5°	1695.7	1722.5	1788.1	1804.4	1807.9
50°	1589.6	1623.2	1688.8	1708.6	1711.3
52.5°	1485.1	1521.4	1588.7	1602.5	1605.1
55°	1379.0	1411.8	1485.1	1495.5	1491.2
57.5°	1267.7	1307.4	1374.7	1379.9	1384.2
60°	1158.9	1193.5	1259.0	1265.9	1256.5
62.5°	1040.7	1076.1	1143.4	1145.1	1137.3
65°	928.5	955.3	1023.4	1021.7	1016.5
67.5°	811.1	843.9	894.0	895.7	891.5
70°	701.6	724.0	772.3	773.2	762.9
72.5°	583.4	607.5	646.3	641.2	638.6
75°	468.6	487.6	517.8	521.2	512.6
77.5°	363.3	377.1	399.6	397.0	387.5
80°	255.4	266.6	283.1	279.6	269.2
82.5°	163.1	170.0	180.4	176.0	171.7
85°	88.9	89.7	90.6	89.7	87.1
87.5°	32.8	33.7	33.7	32.8	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)