

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: P489389

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-35-120-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: P489389
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-24-2-INS-P12125-LD4-5STD-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

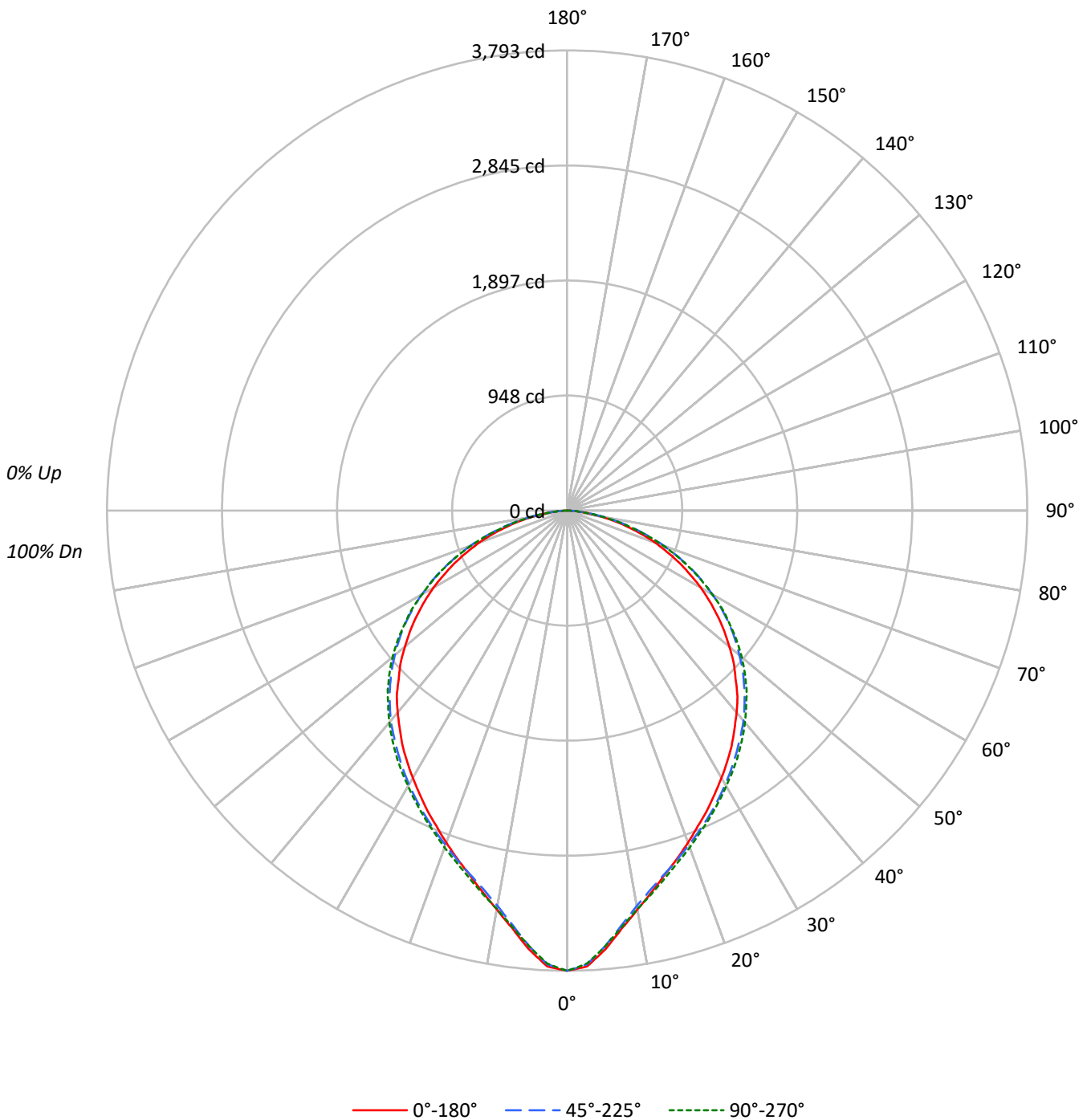
Lumens per Lamp: N/A
Luminaire Lumens: 8811.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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: P489389

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5STD-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489389

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5STD-35-120-EDD

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°	10208	10208	10208
5°	9801	9732	9732
10°	9122	9039	9109
15°	8656	8640	8725
20°	8338	8398	8463
25°	8100	8232	8280
30°	7905	8099	8149
35°	7769	7996	8077
40°	7632	7941	8008
45°	7474	7864	7958
50°	7309	7766	7869
55°	7106	7653	7684
60°	6851	7443	7428
65°	6494	7158	7110
70°	6063	6674	6593
75°	5351	5914	5854
80°	4347	4818	4582
85°	3017	3072	2955



TEST NUMBER: P489389

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5STD-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.2	3.8
10°-20°	878.0	10.0
20°-30°	1276.7	14.5
30°-40°	1519.3	17.2
40°-50°	1577.6	17.9
50°-60°	1429.2	16.2
60°-70°	1078.5	12.2
70°-80°	587.6	6.7
80°-90°	129.1	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°	2489.9	28.3
0°-40°	4009.2	45.5
0°-60°	7016.0	79.6
0°-90°	8811.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8811.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3793	3793	3793	3793	3793	
5°	3628	3620	3603	3601	3603	337
15°	3107	3100	3101	3122	3132	877
25°	2728	2751	2772	2795	2789	1257
35°	2365	2393	2434	2471	2459	1479
45°	1964	1999	2066	2089	2091	1518
55°	1515	1551	1631	1643	1638	1352
65°	1020	1049	1124	1122	1117	1008
75°	515	536	569	572	563	548
85°	98	98	100	98	96	123
90°	0	0	0	0	0	



TEST NUMBER: P489389

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-5STD-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3793.4	3793.4	3793.4	3793.4	3793.4
2.5°	3760.2	3756.4	3744.1	3739.3	3738.3
5°	3628.4	3619.9	3602.8	3601.0	3602.8
7.5°	3471.1	3461.6	3444.6	3451.2	3459.7
10°	3338.4	3314.7	3308.0	3317.5	3333.6
12.5°	3219.9	3200.9	3195.2	3219.9	3231.3
15°	3107.1	3099.5	3101.4	3122.3	3131.7
17.5°	3009.5	3004.7	3017.1	3033.2	3037.9
20°	2911.8	2921.3	2932.7	2949.8	2955.4
22.5°	2816.1	2834.1	2853.1	2875.8	2868.2
25°	2728.0	2750.7	2772.5	2795.2	2788.6
27.5°	2634.1	2660.6	2691.0	2715.6	2706.1
30°	2544.0	2577.2	2606.6	2636.9	2622.7
32.5°	2455.0	2486.3	2521.3	2558.3	2542.2
35°	2364.9	2393.4	2434.1	2471.1	2458.8
37.5°	2265.4	2300.5	2346.9	2379.1	2370.6
40°	2172.5	2204.7	2260.7	2281.5	2279.6
42.5°	2078.7	2105.2	2164.0	2187.7	2183.9
45°	1964.0	1999.0	2066.3	2089.1	2091.0
47.5°	1862.6	1892.0	1964.0	1982.0	1985.8
50°	1746.0	1783.0	1855.0	1876.7	1879.6
52.5°	1631.2	1671.0	1745.0	1760.2	1763.1
55°	1514.7	1550.7	1631.2	1642.7	1637.9
57.5°	1392.4	1436.0	1510.0	1515.6	1520.4
60°	1272.9	1310.9	1382.9	1390.5	1380.1
62.5°	1143.1	1182.0	1255.9	1257.8	1249.3
65°	1019.9	1049.3	1124.1	1122.3	1116.6
67.5°	891.0	927.0	982.0	983.9	979.2
70°	770.6	795.2	848.3	849.3	837.9
72.5°	640.8	667.3	709.9	704.3	701.5
75°	514.7	535.6	568.8	572.5	563.0
77.5°	399.1	414.2	438.9	436.1	425.6
80°	280.5	292.9	310.9	307.1	295.7
82.5°	179.1	186.8	198.1	193.4	188.6
85°	97.7	98.5	99.5	98.5	95.7
87.5°	36.0	37.0	37.0	36.0	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)