

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: P488970

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-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: P488970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-4HI-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

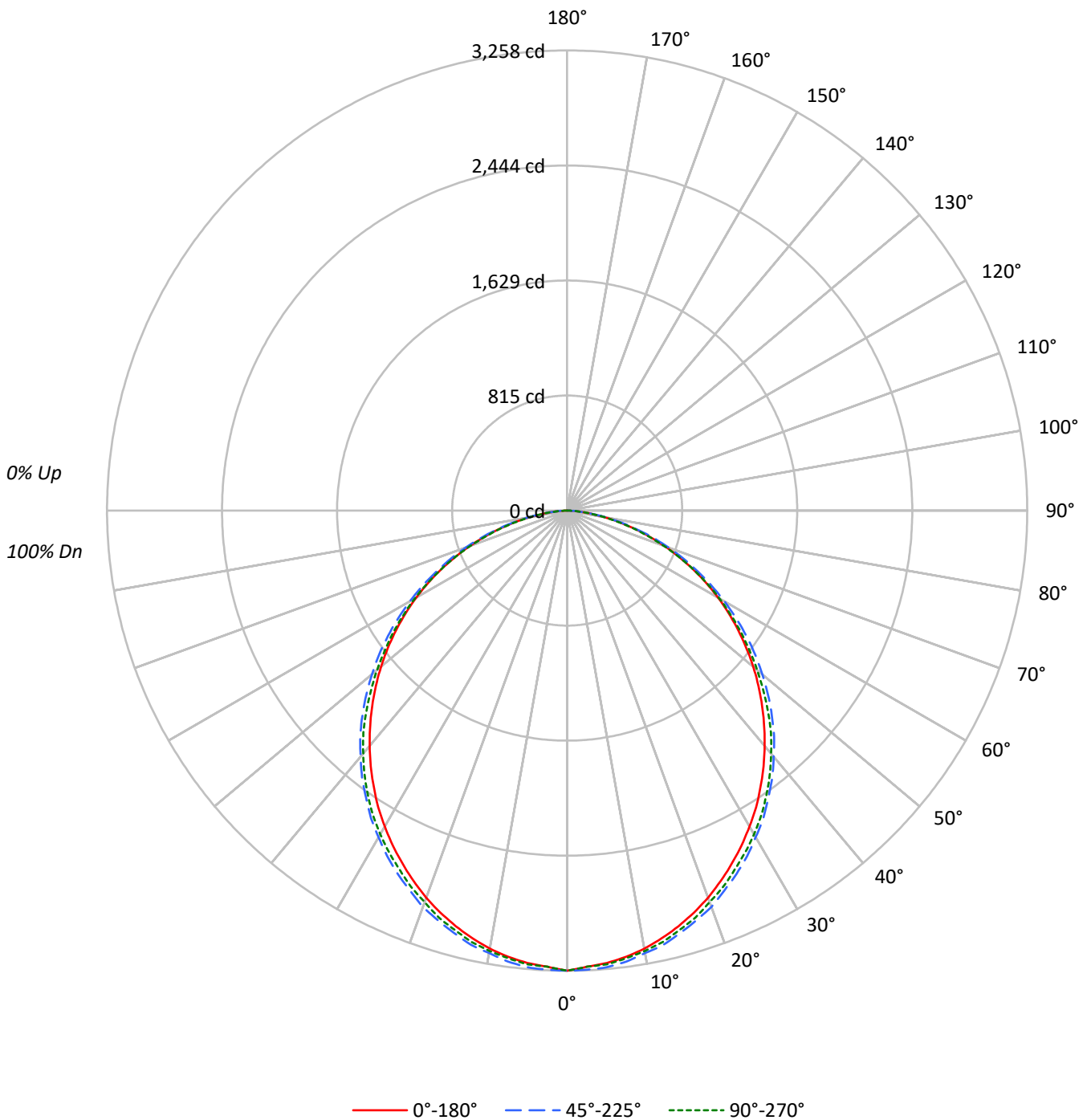
Lumens per Lamp: N/A
Luminaire Lumens: 8565.1 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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: P488970

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488970

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-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	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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85																												
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																												
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60																												
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51																												
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45																												
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39																												
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35																												
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31																												
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8767	8767	8767
5°	8686	8767	8713
10°	8606	8693	8652
15°	8487	8624	8564
20°	8354	8552	8449
25°	8191	8429	8332
30°	8025	8297	8222
35°	7844	8156	8080
40°	7641	7992	7891
45°	7426	7801	7653
50°	7203	7551	7354
55°	6942	7266	7043
60°	6646	6922	6708
65°	6264	6503	6268
70°	5763	5995	5699
75°	5075	5305	4997
80°	4124	4303	4077
85°	2871	3060	2986



TEST NUMBER: P488970

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.8	3.6
10°-20°	869.5	10.2
20°-30°	1296.8	15.1
30°-40°	1536.7	17.9
40°-50°	1554.9	18.2
50°-60°	1358.0	15.9
60°-70°	992.4	11.6
70°-80°	528.0	6.2
80°-90°	122.0	1.4
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
<hr/>		
0°-30°	2473.1	28.9
0°-40°	4009.8	46.8
0°-60°	6922.7	80.8
0°-90°	8565.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8565.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3258	3258	3258	3258	3258	
5°	3215	3222	3246	3253	3226	305
15°	3046	3067	3096	3114	3074	859
25°	2759	2792	2839	2849	2806	1271
35°	2388	2425	2483	2500	2460	1493
45°	1951	1986	2050	2052	2011	1505
55°	1480	1509	1549	1526	1501	1323
65°	984	1004	1021	1001	984	973
75°	488	499	510	492	481	519
85°	93	95	99	100	97	118
90°	0	0	0	0	0	



TEST NUMBER: P488970

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4HI-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3257.9	3257.9	3257.9	3257.9	3257.9
2.5°	3232.4	3242.9	3253.8	3258.5	3232.1
5°	3215.4	3221.5	3245.6	3253.1	3225.6
7.5°	3187.6	3196.8	3220.2	3223.6	3197.1
10°	3149.6	3165.9	3181.5	3198.5	3166.2
12.5°	3101.0	3123.1	3149.6	3152.6	3128.2
15°	3046.4	3066.8	3095.6	3114.3	3073.9
17.5°	2985.3	3005.0	3042.3	3045.7	3021.3
20°	2917.1	2941.5	2986.3	2994.1	2950.3
22.5°	2839.7	2872.6	2909.9	2917.4	2885.2
25°	2758.6	2792.5	2838.7	2849.2	2806.1
27.5°	2673.7	2706.3	2758.2	2765.7	2729.4
30°	2582.7	2613.3	2670.3	2682.9	2645.9
32.5°	2490.4	2521.0	2584.1	2594.6	2558.6
35°	2387.9	2425.2	2482.6	2499.9	2459.5
37.5°	2283.4	2319.7	2384.8	2400.5	2357.0
40°	2175.1	2211.1	2275.2	2288.1	2246.4
42.5°	2064.4	2100.4	2169.0	2171.0	2136.4
45°	1951.4	1986.0	2049.8	2051.5	2011.1
47.5°	1836.7	1871.6	1928.6	1922.2	1884.2
50°	1720.6	1753.8	1803.7	1790.8	1756.6
52.5°	1600.4	1632.7	1679.8	1658.8	1626.6
55°	1479.6	1509.4	1548.8	1526.4	1501.3
57.5°	1357.7	1387.9	1418.1	1395.4	1373.7
60°	1234.9	1261.3	1286.1	1263.0	1246.4
62.5°	1109.9	1132.7	1154.1	1132.0	1116.4
65°	983.7	1003.7	1021.3	1001.0	984.4
67.5°	858.1	875.1	891.3	870.3	853.0
70°	732.5	747.1	762.0	740.3	724.3
72.5°	608.6	621.5	634.7	613.7	599.8
75°	488.1	499.3	510.2	491.5	480.6
77.5°	373.0	382.5	390.0	378.1	367.6
80°	266.1	273.2	277.7	272.9	263.1
82.5°	171.1	176.2	178.5	178.2	171.8
85°	93.0	94.7	99.1	100.1	96.7
87.5°	36.0	38.4	39.4	42.4	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)