

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: P488991

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-30-120-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: P488991
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-LD4-4STD-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

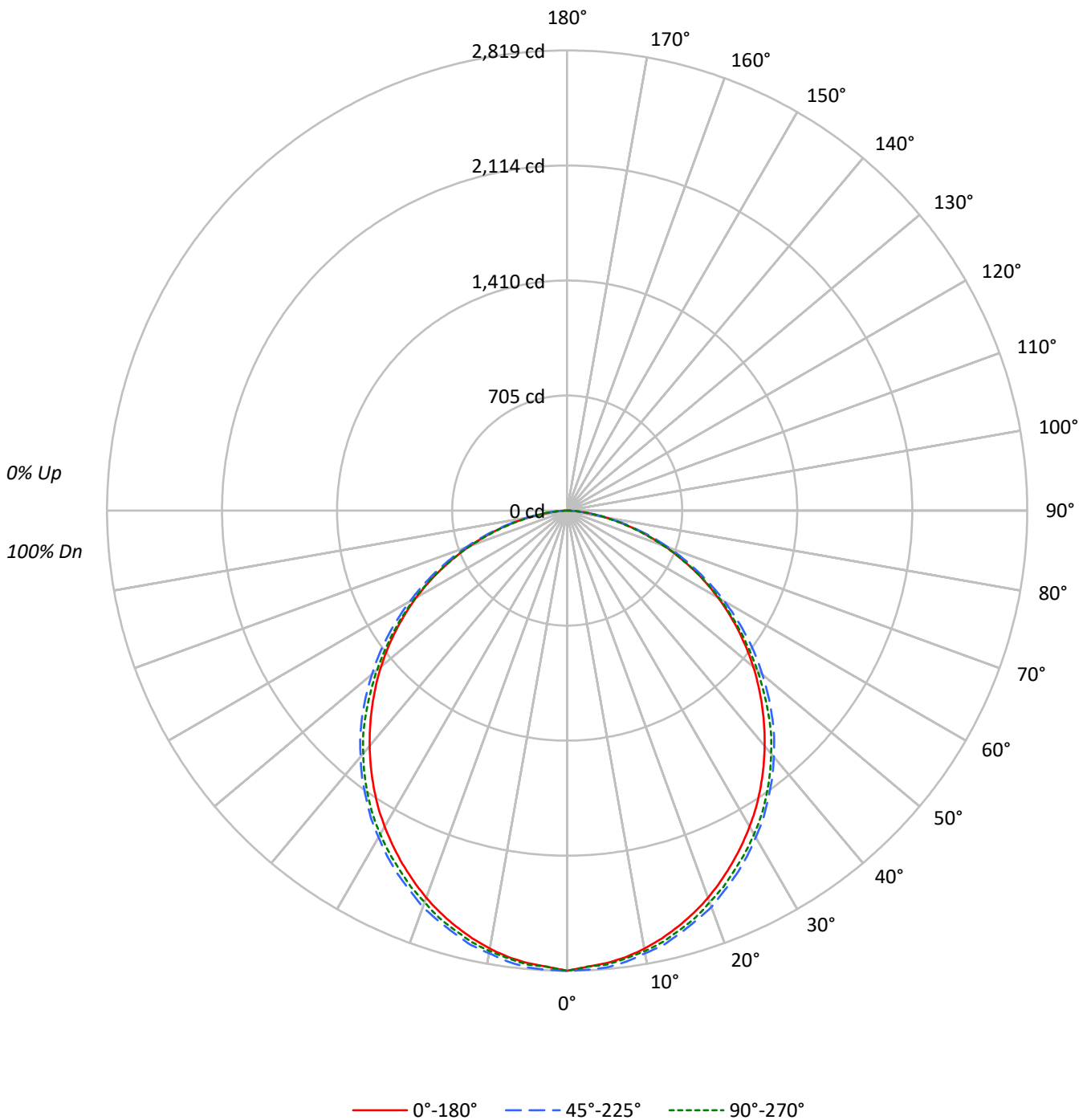
Lumens per Lamp: N/A
Luminaire Lumens: 7412.4 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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: P488991

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-30-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488991

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-30-120-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	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									100																			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85									85																			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71									71																			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60									60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51									51																			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45									45																			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39									39																			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35									35																			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31									31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28									28																			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25									25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7587	7587	7587
5°	7517	7587	7541
10°	7448	7523	7487
15°	7345	7463	7411
20°	7229	7401	7312
25°	7088	7294	7210
30°	6945	7181	7115
35°	6789	7058	6992
40°	6613	6917	6829
45°	6427	6751	6624
50°	6234	6535	6364
55°	6008	6289	6096
60°	5752	5990	5806
65°	5421	5628	5424
70°	4987	5189	4932
75°	4392	4590	4325
80°	3569	3724	3529
85°	2485	2649	2584



TEST NUMBER: P488991

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	3.6
10°-20°	752.5	10.2
20°-30°	1122.3	15.1
30°-40°	1329.9	17.9
40°-50°	1345.6	18.2
50°-60°	1175.2	15.9
60°-70°	858.8	11.6
70°-80°	457.0	6.2
80°-90°	105.6	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
0°-30°	2140.3	28.9
0°-40°	3470.1	46.8
0°-60°	5991.0	80.8
0°-90°	7412.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7412.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2819	2819	2819	2819	2819	
5°	2783	2788	2809	2815	2792	264
15°	2636	2654	2679	2695	2660	743
25°	2387	2417	2457	2466	2428	1100
35°	2066	2099	2148	2164	2128	1292
45°	1689	1719	1774	1775	1740	1303
55°	1280	1306	1340	1321	1299	1145
65°	851	869	884	866	852	842
75°	422	432	442	425	416	449
85°	80	82	86	87	84	102
90°	0	0	0	0	0	



TEST NUMBER: P488991

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2819.4	2819.4	2819.4	2819.4	2819.4
2.5°	2797.4	2806.5	2815.9	2820.0	2797.1
5°	2782.7	2788.0	2808.8	2815.3	2791.5
7.5°	2758.6	2766.5	2786.8	2789.7	2766.8
10°	2725.7	2739.8	2753.3	2768.0	2740.1
12.5°	2683.7	2702.8	2725.7	2728.4	2707.2
15°	2636.4	2654.0	2679.0	2695.2	2660.2
17.5°	2583.5	2600.6	2632.9	2635.8	2614.7
20°	2524.5	2545.6	2584.4	2591.2	2553.3
22.5°	2457.5	2486.0	2518.3	2524.8	2496.9
25°	2387.3	2416.7	2456.6	2465.7	2428.4
27.5°	2313.9	2342.1	2387.0	2393.5	2362.0
30°	2235.1	2261.6	2310.9	2321.8	2289.8
32.5°	2155.2	2181.7	2236.3	2245.4	2214.3
35°	2066.5	2098.8	2148.5	2163.5	2128.5
37.5°	1976.1	2007.5	2063.9	2077.4	2039.8
40°	1882.4	1913.5	1969.0	1980.2	1944.0
42.5°	1786.6	1817.7	1877.1	1878.8	1848.9
45°	1688.8	1718.7	1774.0	1775.4	1740.5
47.5°	1589.5	1619.7	1669.1	1663.5	1630.6
50°	1489.0	1517.8	1561.0	1549.8	1520.2
52.5°	1385.0	1412.9	1453.8	1435.6	1407.7
55°	1280.5	1306.3	1340.4	1321.0	1299.3
57.5°	1175.0	1201.1	1227.3	1207.6	1188.8
60°	1068.7	1091.6	1113.0	1093.0	1078.7
62.5°	960.6	980.2	998.8	979.7	966.1
65°	851.3	868.6	883.9	866.3	851.9
67.5°	742.6	757.3	771.4	753.2	738.2
70°	633.9	646.5	659.5	640.7	626.9
72.5°	526.7	537.9	549.3	531.1	519.1
75°	422.4	432.1	441.5	425.4	416.0
77.5°	322.8	331.1	337.5	327.2	318.1
80°	230.3	236.5	240.3	236.2	227.7
82.5°	148.1	152.5	154.5	154.2	148.6
85°	80.5	82.0	85.8	86.7	83.7
87.5°	31.1	33.2	34.1	36.7	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)