

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: P488599

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-40-120-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: P488599
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-12-4-INS-A12125-LD4-2STD-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

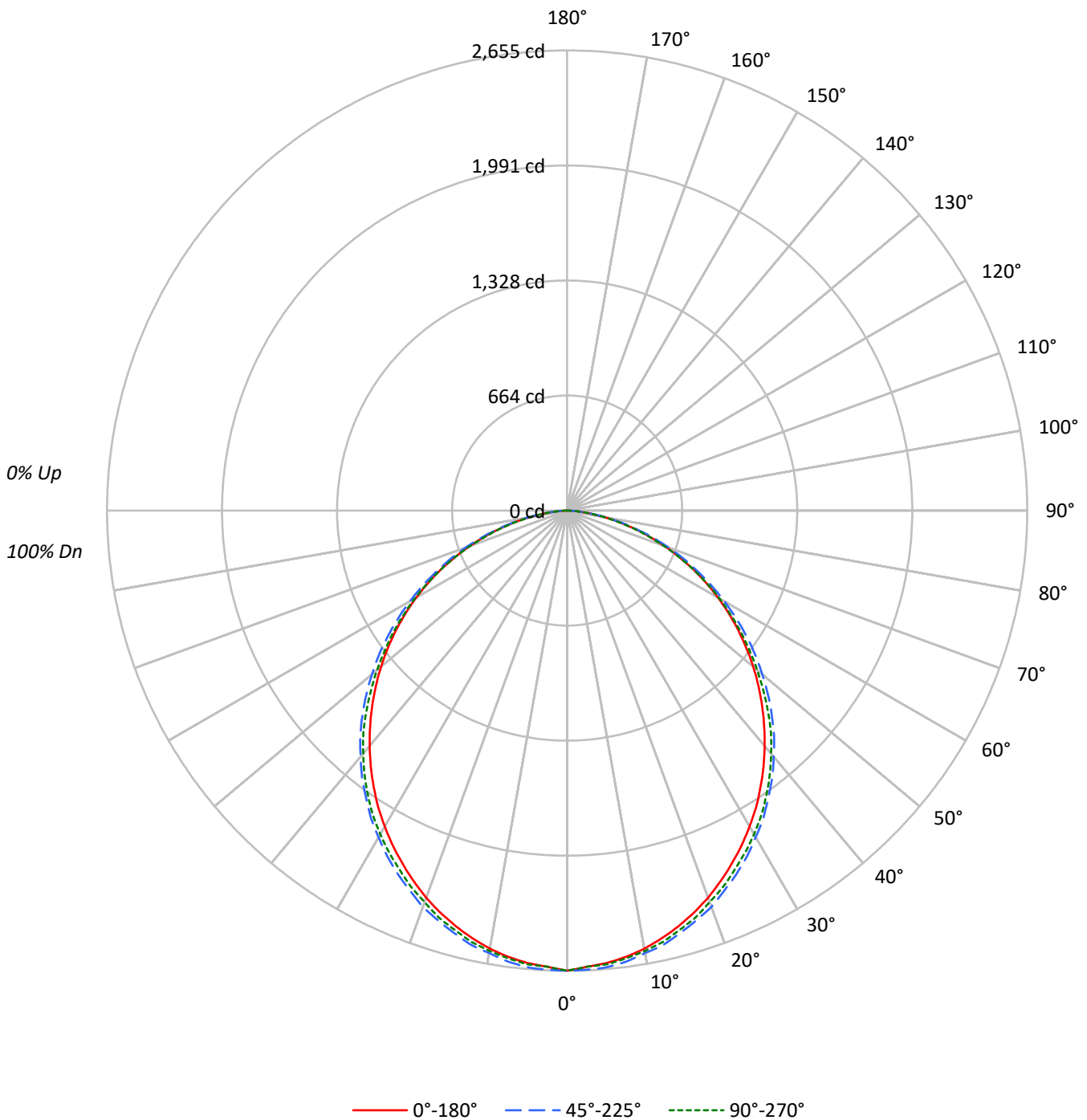
Lumens per Lamp: N/A
Luminaire Lumens: 6979.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P488599

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2STD-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488599

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2STD-40-120-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	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°	7144	7144	7144
5°	7078	7145	7101
10°	7013	7085	7050
15°	6916	7028	6979
20°	6808	6969	6885
25°	6675	6869	6790
30°	6540	6762	6700
35°	6393	6646	6584
40°	6226	6513	6431
45°	6052	6357	6237
50°	5870	6154	5993
55°	5657	5922	5740
60°	5416	5641	5466
65°	5104	5300	5108
70°	4696	4886	4644
75°	4136	4322	4073
80°	3361	3507	3322
85°	2340	2495	2433



TEST NUMBER: P488599

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2STD-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	3.6
10°-20°	708.6	10.2
20°-30°	1056.8	15.1
30°-40°	1252.3	17.9
40°-50°	1267.1	18.2
50°-60°	1106.6	15.9
60°-70°	808.7	11.6
70°-80°	430.3	6.2
80°-90°	99.5	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°	2015.4	28.9
0°-40°	3267.7	46.8
0°-60°	5641.4	80.8
0°-90°	6979.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6979.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2655	2655	2655	2655	2655	
5°	2620	2625	2645	2651	2629	248
15°	2483	2499	2523	2538	2505	700
25°	2248	2276	2313	2322	2287	1036
35°	1946	1976	2023	2037	2004	1217
45°	1590	1618	1670	1672	1639	1227
55°	1206	1230	1262	1244	1223	1078
65°	802	818	832	816	802	793
75°	398	407	416	400	392	423
85°	76	77	81	82	79	96
90°	0	0	0	0	0	



TEST NUMBER: P488599

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2STD-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2654.9	2654.9	2654.9	2654.9	2654.9
2.5°	2634.2	2642.7	2651.6	2655.5	2633.9
5°	2620.3	2625.3	2644.9	2651.0	2628.6
7.5°	2597.6	2605.1	2624.2	2627.0	2605.4
10°	2566.7	2579.9	2592.7	2606.5	2580.2
12.5°	2527.1	2545.1	2566.7	2569.2	2549.2
15°	2482.6	2499.2	2522.7	2537.9	2505.0
17.5°	2432.8	2448.8	2479.3	2482.0	2462.1
20°	2377.2	2397.1	2433.6	2440.0	2404.3
22.5°	2314.1	2341.0	2371.4	2377.5	2351.2
25°	2248.0	2275.7	2313.3	2321.9	2286.7
27.5°	2178.9	2205.4	2247.7	2253.8	2224.2
30°	2104.7	2129.6	2176.1	2186.3	2156.2
32.5°	2029.5	2054.4	2105.8	2114.4	2085.1
35°	1946.0	1976.4	2023.1	2037.2	2004.3
37.5°	1860.8	1890.4	1943.5	1956.2	1920.8
40°	1772.5	1801.8	1854.1	1864.6	1830.6
42.5°	1682.3	1711.7	1767.5	1769.2	1741.0
45°	1590.2	1618.4	1670.4	1671.8	1638.9
47.5°	1496.7	1525.2	1571.7	1566.4	1535.5
50°	1402.1	1429.2	1469.9	1459.4	1431.5
52.5°	1304.2	1330.5	1368.9	1351.8	1325.5
55°	1205.7	1230.1	1262.2	1243.9	1223.4
57.5°	1106.4	1131.1	1155.7	1137.1	1119.4
60°	1006.3	1027.9	1048.1	1029.3	1015.7
62.5°	904.5	923.0	940.5	922.5	909.8
65°	801.6	817.9	832.3	815.7	802.2
67.5°	699.3	713.1	726.4	709.2	695.1
70°	596.9	608.8	621.0	603.3	590.3
72.5°	496.0	506.5	517.3	500.1	488.8
75°	397.8	406.9	415.7	400.5	391.7
77.5°	304.0	311.7	317.8	308.1	299.6
80°	216.9	222.7	226.3	222.4	214.4
82.5°	139.4	143.6	145.5	145.2	140.0
85°	75.8	77.2	80.8	81.6	78.8
87.5°	29.3	31.3	32.1	34.6	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)