

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: P489840

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-27-120-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: P489840
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-LD4-3LO-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

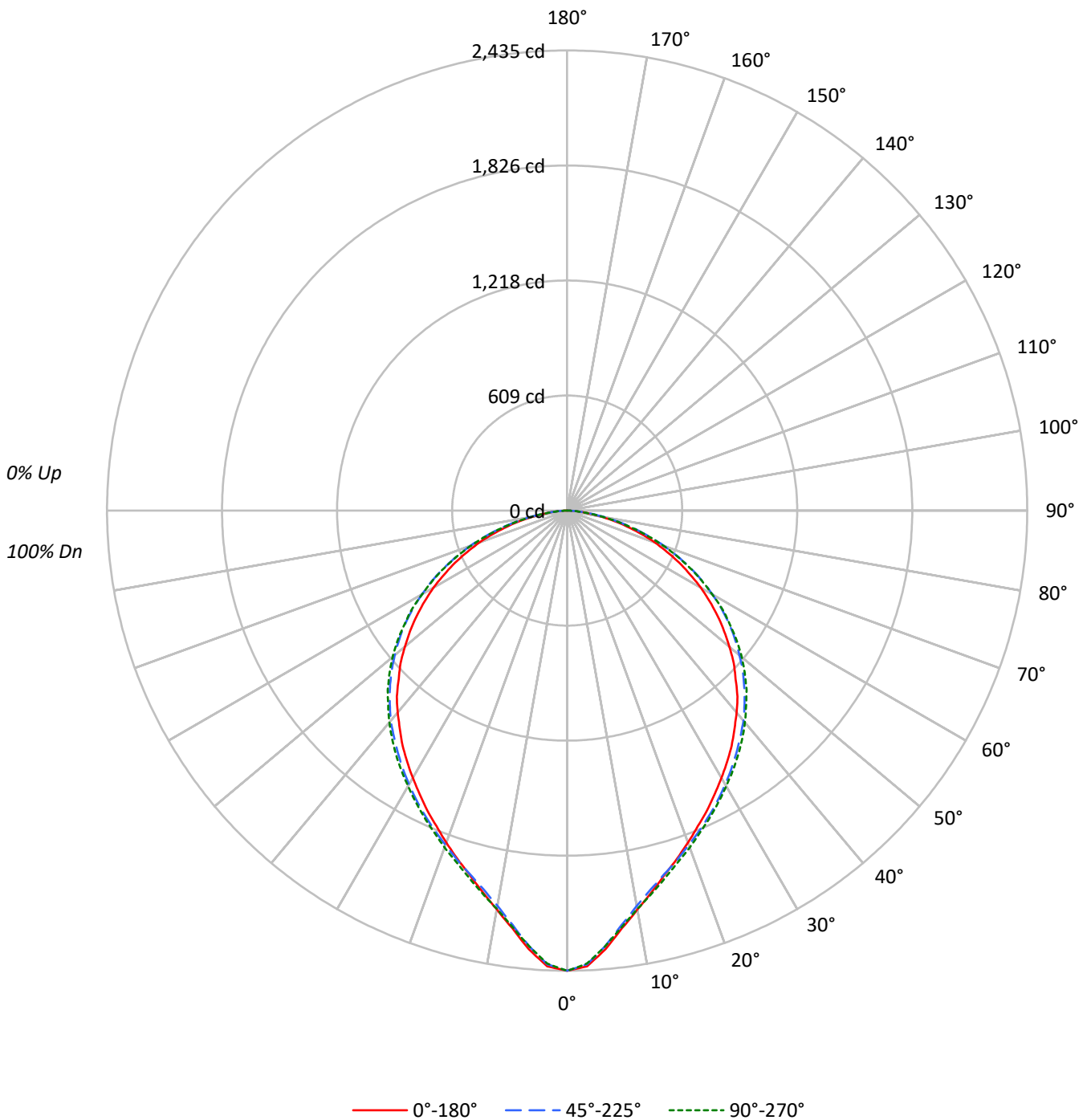
Lumens per Lamp: N/A
Luminaire Lumens: 5656.1 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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: P489840

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-27-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489840

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-27-120-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°	3276	3276	3276
5°	3146	3124	3124
10°	2928	2901	2924
15°	2778	2773	2800
20°	2676	2696	2716
25°	2600	2642	2658
30°	2537	2600	2616
35°	2494	2566	2592
40°	2449	2549	2570
45°	2399	2524	2554
50°	2346	2493	2526
55°	2281	2456	2466
60°	2199	2389	2384
65°	2084	2297	2282
70°	1946	2142	2116
75°	1718	1898	1879
80°	1395	1547	1471
85°	968	986	948



TEST NUMBER: P489840

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.8
10°-20°	563.6	10.0
20°-30°	819.6	14.5
30°-40°	975.3	17.2
40°-50°	1012.7	17.9
50°-60°	917.4	16.2
60°-70°	692.3	12.2
70°-80°	377.2	6.7
80°-90°	82.9	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°	1598.3	28.3
0°-40°	2573.6	45.5
0°-60°	4503.7	79.6
0°-90°	5656.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5656.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2329	2324	2313	2312	2313	216
15°	1994	1990	1991	2004	2010	563
25°	1751	1766	1780	1794	1790	807
35°	1518	1536	1562	1586	1578	949
45°	1261	1283	1326	1341	1342	975
55°	972	995	1047	1054	1051	868
65°	655	674	722	720	717	647
75°	330	344	365	368	361	352
85°	63	63	64	63	61	79
90°	0	0	0	0	0	



TEST NUMBER: P489840

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2435.0	2435.0	2435.0	2435.0	2435.0
2.5°	2413.7	2411.3	2403.4	2400.3	2399.7
5°	2329.2	2323.7	2312.7	2311.5	2312.7
7.5°	2228.2	2222.1	2211.1	2215.4	2220.9
10°	2143.0	2127.8	2123.5	2129.6	2139.9
12.5°	2066.9	2054.7	2051.1	2066.9	2074.2
15°	1994.5	1989.6	1990.9	2004.3	2010.3
17.5°	1931.9	1928.8	1936.7	1947.1	1950.1
20°	1869.2	1875.3	1882.6	1893.5	1897.2
22.5°	1807.7	1819.3	1831.5	1846.1	1841.2
25°	1751.1	1765.7	1779.7	1794.3	1790.1
27.5°	1690.9	1707.9	1727.4	1743.2	1737.1
30°	1633.1	1654.4	1673.3	1692.7	1683.6
32.5°	1575.9	1596.0	1618.5	1642.2	1631.9
35°	1518.1	1536.3	1562.5	1586.3	1578.3
37.5°	1454.2	1476.7	1506.5	1527.2	1521.8
40°	1394.6	1415.3	1451.2	1464.6	1463.3
42.5°	1334.3	1351.4	1389.1	1404.3	1401.9
45°	1260.7	1283.2	1326.4	1341.1	1342.2
47.5°	1195.6	1214.5	1260.7	1272.3	1274.7
50°	1120.8	1144.5	1190.8	1204.7	1206.6
52.5°	1047.1	1072.7	1120.2	1129.9	1131.7
55°	972.3	995.4	1047.1	1054.5	1051.4
57.5°	893.8	921.8	969.3	972.9	976.0
60°	817.1	841.5	887.7	892.6	885.9
62.5°	733.8	758.7	806.2	807.4	801.9
65°	654.7	673.6	721.6	720.4	716.7
67.5°	571.9	595.0	630.4	631.6	628.6
70°	494.7	510.5	544.6	545.2	537.9
72.5°	411.3	428.3	455.7	452.1	450.3
75°	330.4	343.8	365.1	367.5	361.4
77.5°	256.2	265.9	281.7	279.9	273.2
80°	180.1	188.0	199.6	197.2	189.8
82.5°	115.0	119.9	127.2	124.1	121.1
85°	62.7	63.3	63.9	63.3	61.4
87.5°	23.1	23.7	23.7	23.1	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)