

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: P489813

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-50-120-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: P489813
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-LD4-2LO-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

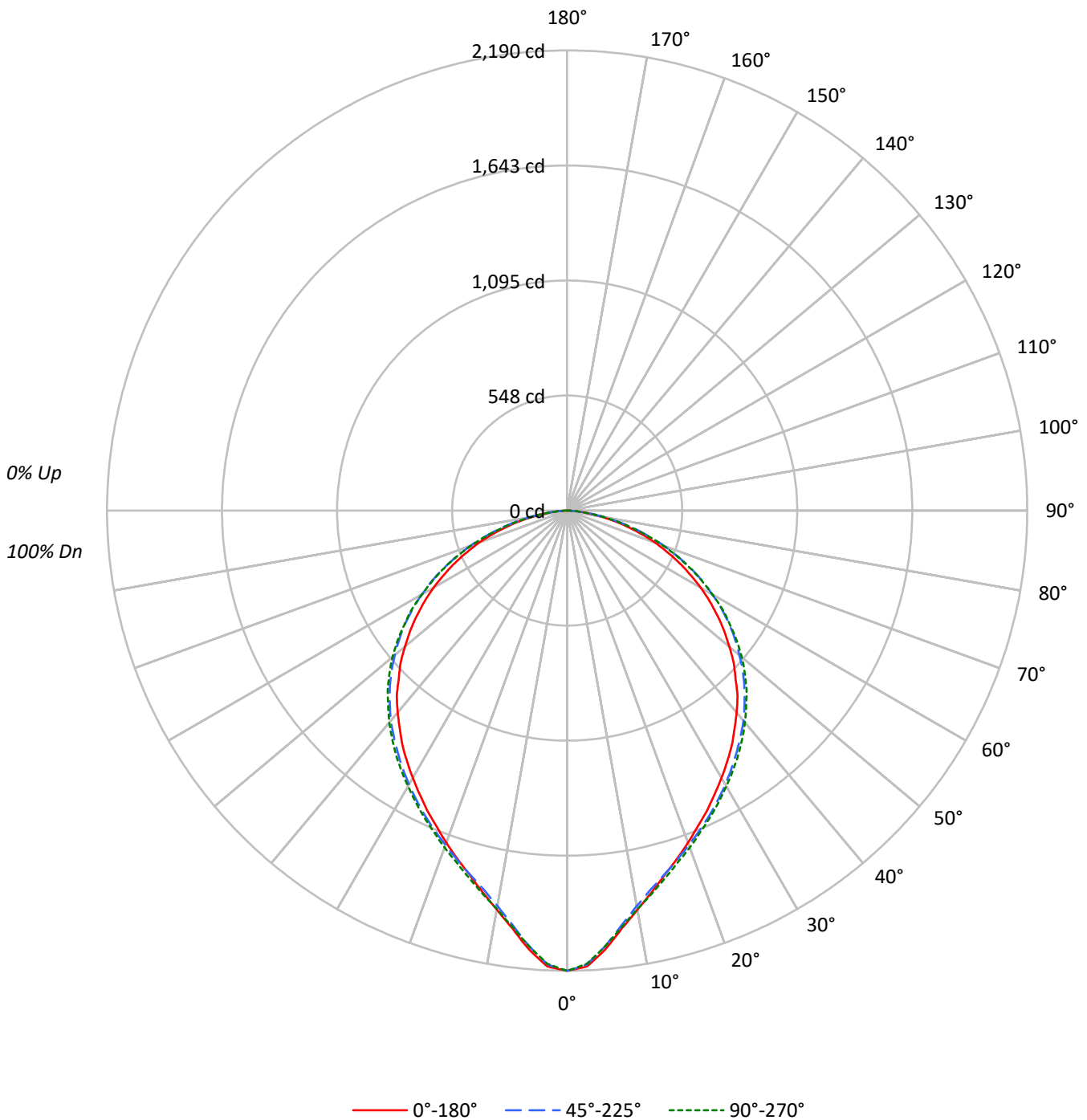
Lumens per Lamp: N/A
Luminaire Lumens: 5087.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P489813

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2LO-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489813

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2LO-50-120-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°	2947	2947	2947
5°	2830	2810	2810
10°	2634	2610	2630
15°	2499	2495	2519
20°	2407	2425	2444
25°	2339	2377	2391
30°	2282	2339	2353
35°	2243	2309	2332
40°	2203	2293	2312
45°	2158	2270	2297
50°	2110	2242	2272
55°	2052	2209	2219
60°	1978	2149	2144
65°	1875	2067	2053
70°	1751	1927	1904
75°	1545	1707	1690
80°	1255	1391	1323
85°	871	888	854



TEST NUMBER: P489813

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2LO-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	3.8
10°-20°	507.0	10.0
20°-30°	737.2	14.5
30°-40°	877.3	17.2
40°-50°	910.9	17.9
50°-60°	825.3	16.2
60°-70°	622.7	12.2
70°-80°	339.3	6.7
80°-90°	74.6	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°	1437.8	28.3
0°-40°	2315.1	45.5
0°-60°	4051.3	79.6
0°-90°	5087.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2095	2090	2080	2079	2080	194
15°	1794	1790	1791	1803	1808	506
25°	1575	1588	1601	1614	1610	726
35°	1366	1382	1406	1427	1420	854
45°	1134	1154	1193	1206	1207	877
55°	875	895	942	948	946	781
65°	589	606	649	648	645	582
75°	297	309	328	331	325	317
85°	56	57	58	57	55	71
90°	0	0	0	0	0	



TEST NUMBER: P489813

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-2LO-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2190.4	2190.4	2190.4	2190.4	2190.4
2.5°	2171.3	2169.1	2161.9	2159.2	2158.6
5°	2095.2	2090.3	2080.4	2079.3	2080.4
7.5°	2004.3	1998.8	1989.0	1992.8	1997.8
10°	1927.7	1914.0	1910.2	1915.6	1925.0
12.5°	1859.3	1848.3	1845.0	1859.3	1865.9
15°	1794.1	1789.8	1790.9	1802.9	1808.4
17.5°	1737.8	1735.0	1742.2	1751.5	1754.2
20°	1681.4	1686.9	1693.4	1703.3	1706.6
22.5°	1626.1	1636.5	1647.5	1660.6	1656.2
25°	1575.2	1588.3	1601.0	1614.1	1610.3
27.5°	1521.0	1536.3	1553.9	1568.1	1562.6
30°	1469.0	1488.2	1505.2	1522.7	1514.5
32.5°	1417.6	1435.7	1455.9	1477.2	1467.9
35°	1365.6	1382.0	1405.6	1426.9	1419.8
37.5°	1308.1	1328.4	1355.2	1373.8	1368.9
40°	1254.5	1273.1	1305.4	1317.4	1316.3
42.5°	1200.3	1215.6	1249.6	1263.2	1261.0
45°	1134.1	1154.3	1193.2	1206.3	1207.4
47.5°	1075.5	1092.5	1134.1	1144.5	1146.6
50°	1008.2	1029.5	1071.1	1083.7	1085.4
52.5°	941.9	964.9	1007.6	1016.4	1018.0
55°	874.6	895.4	941.9	948.5	945.8
57.5°	804.0	829.2	871.9	875.2	877.9
60°	735.0	757.0	798.5	802.9	796.9
62.5°	660.1	682.5	725.2	726.3	721.4
65°	588.9	605.9	649.1	648.0	644.7
67.5°	514.5	535.3	567.0	568.1	565.4
70°	445.0	459.2	489.9	490.4	483.9
72.5°	370.0	385.3	409.9	406.7	405.0
75°	297.2	309.2	328.4	330.6	325.1
77.5°	230.4	239.2	253.4	251.8	245.7
80°	162.0	169.1	179.5	177.4	170.7
82.5°	103.4	107.8	114.4	111.7	108.9
85°	56.4	56.9	57.5	56.9	55.3
87.5°	20.8	21.4	21.4	20.8	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)