

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: P489838

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-20-120-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: P489838
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-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

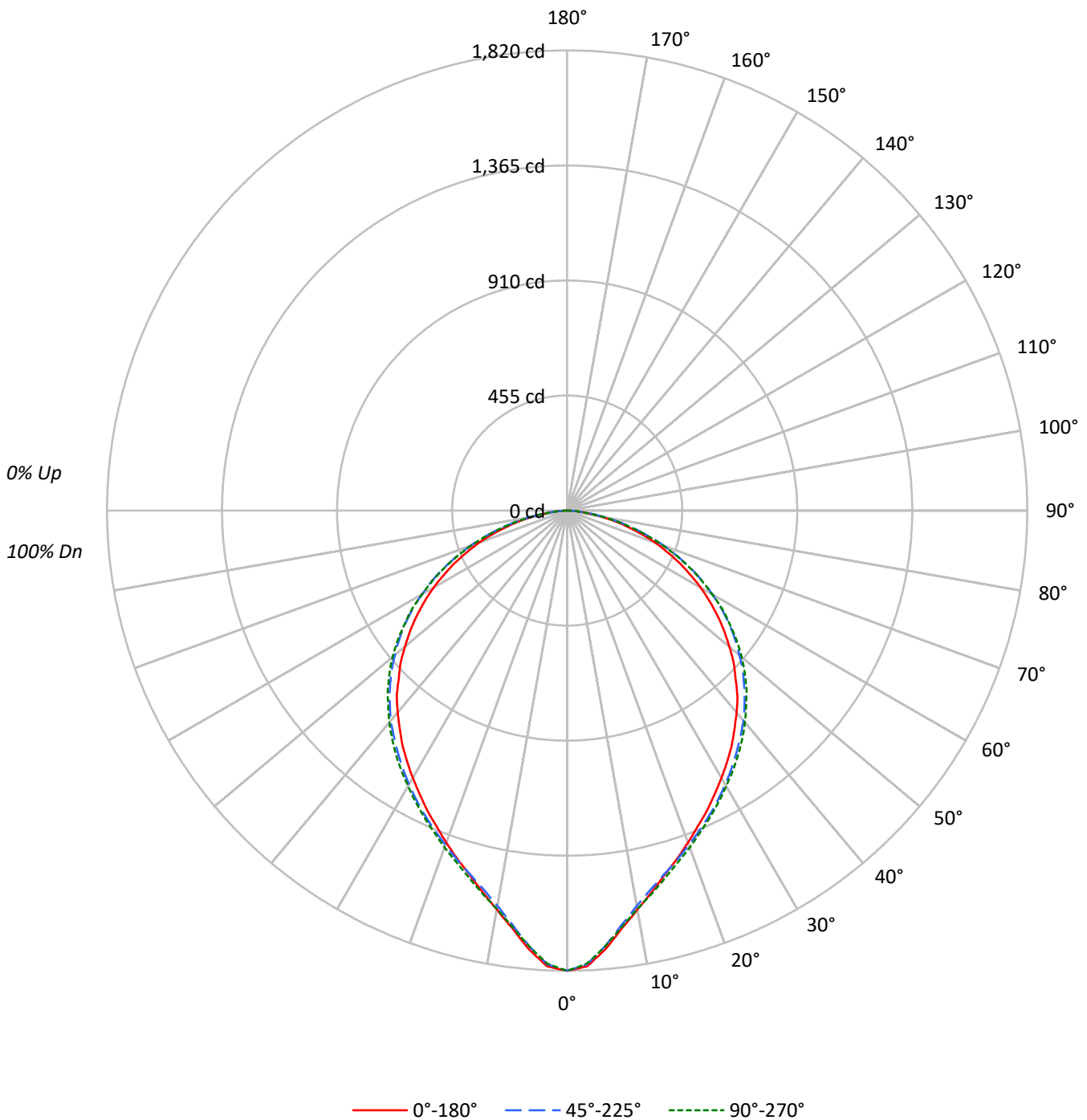
Lumens per Lamp: N/A
Luminaire Lumens: 4227.7 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P489838

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489838

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-20-120-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°	2449	2449	2449
5°	2351	2335	2335
10°	2188	2169	2185
15°	2077	2073	2093
20°	2000	2015	2030
25°	1943	1975	1986
30°	1896	1943	1955
35°	1864	1918	1938
40°	1831	1905	1921
45°	1793	1886	1909
50°	1753	1863	1888
55°	1705	1836	1844
60°	1644	1785	1782
65°	1558	1717	1706
70°	1454	1601	1582
75°	1284	1419	1404
80°	1043	1156	1099
85°	724	736	709



TEST NUMBER: P489838

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	3.8
10°-20°	421.3	10.0
20°-30°	612.6	14.5
30°-40°	729.0	17.2
40°-50°	756.9	17.9
50°-60°	685.7	16.2
60°-70°	517.5	12.2
70°-80°	281.9	6.7
80°-90°	62.0	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°	1194.7	28.3
0°-40°	1923.7	45.5
0°-60°	3366.4	79.6
0°-90°	4227.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4227.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1741	1737	1729	1728	1729	162
15°	1491	1487	1488	1498	1503	421
25°	1309	1320	1330	1341	1338	603
35°	1135	1148	1168	1186	1180	709
45°	942	959	991	1002	1003	728
55°	727	744	783	788	786	649
65°	489	504	539	538	536	484
75°	247	257	273	275	270	263
85°	47	47	48	47	46	59
90°	0	0	0	0	0	



TEST NUMBER: P489838

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-3LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1820.1	1820.1	1820.1	1820.1	1820.1
2.5°	1804.2	1802.3	1796.4	1794.2	1793.7
5°	1741.0	1736.9	1728.7	1727.8	1728.7
7.5°	1665.5	1660.9	1652.7	1655.9	1660.0
10°	1601.8	1590.4	1587.2	1591.8	1599.5
12.5°	1544.9	1535.8	1533.1	1544.9	1550.4
15°	1490.8	1487.2	1488.1	1498.1	1502.6
17.5°	1444.0	1441.7	1447.6	1455.3	1457.6
20°	1397.1	1401.7	1407.1	1415.3	1418.0
22.5°	1351.2	1359.8	1368.9	1379.8	1376.2
25°	1308.9	1319.8	1330.3	1341.2	1338.0
27.5°	1263.9	1276.6	1291.2	1303.0	1298.4
30°	1220.6	1236.6	1250.7	1265.2	1258.4
32.5°	1177.9	1192.9	1209.7	1227.5	1219.8
35°	1134.7	1148.4	1167.9	1185.7	1179.7
37.5°	1087.0	1103.8	1126.1	1141.5	1137.5
40°	1042.4	1057.9	1084.7	1094.7	1093.8
42.5°	997.4	1010.1	1038.3	1049.7	1047.8
45°	942.3	959.2	991.4	1002.4	1003.3
47.5°	893.7	907.8	942.3	951.0	952.8
50°	837.7	855.5	890.0	900.5	901.9
52.5°	782.7	801.8	837.3	844.5	845.9
55°	726.7	744.0	782.7	788.2	785.9
57.5°	668.1	689.0	724.5	727.2	729.5
60°	610.8	629.0	663.5	667.2	662.2
62.5°	548.5	567.1	602.6	603.5	599.4
65°	489.3	503.5	539.4	538.5	535.7
67.5°	427.5	444.8	471.2	472.1	469.8
70°	369.7	381.6	407.0	407.5	402.1
72.5°	307.5	320.2	340.6	337.9	336.6
75°	247.0	257.0	272.9	274.7	270.1
77.5°	191.5	198.7	210.6	209.2	204.2
80°	134.6	140.5	149.2	147.4	141.9
82.5°	85.9	89.6	95.1	92.8	90.5
85°	46.9	47.3	47.7	47.3	45.9
87.5°	17.3	17.7	17.7	17.3	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)