

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: P488830

Luminaire Tested: **CLM-12-4-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: P488830
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-12-4-INS-P12125-LD4-3LO-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

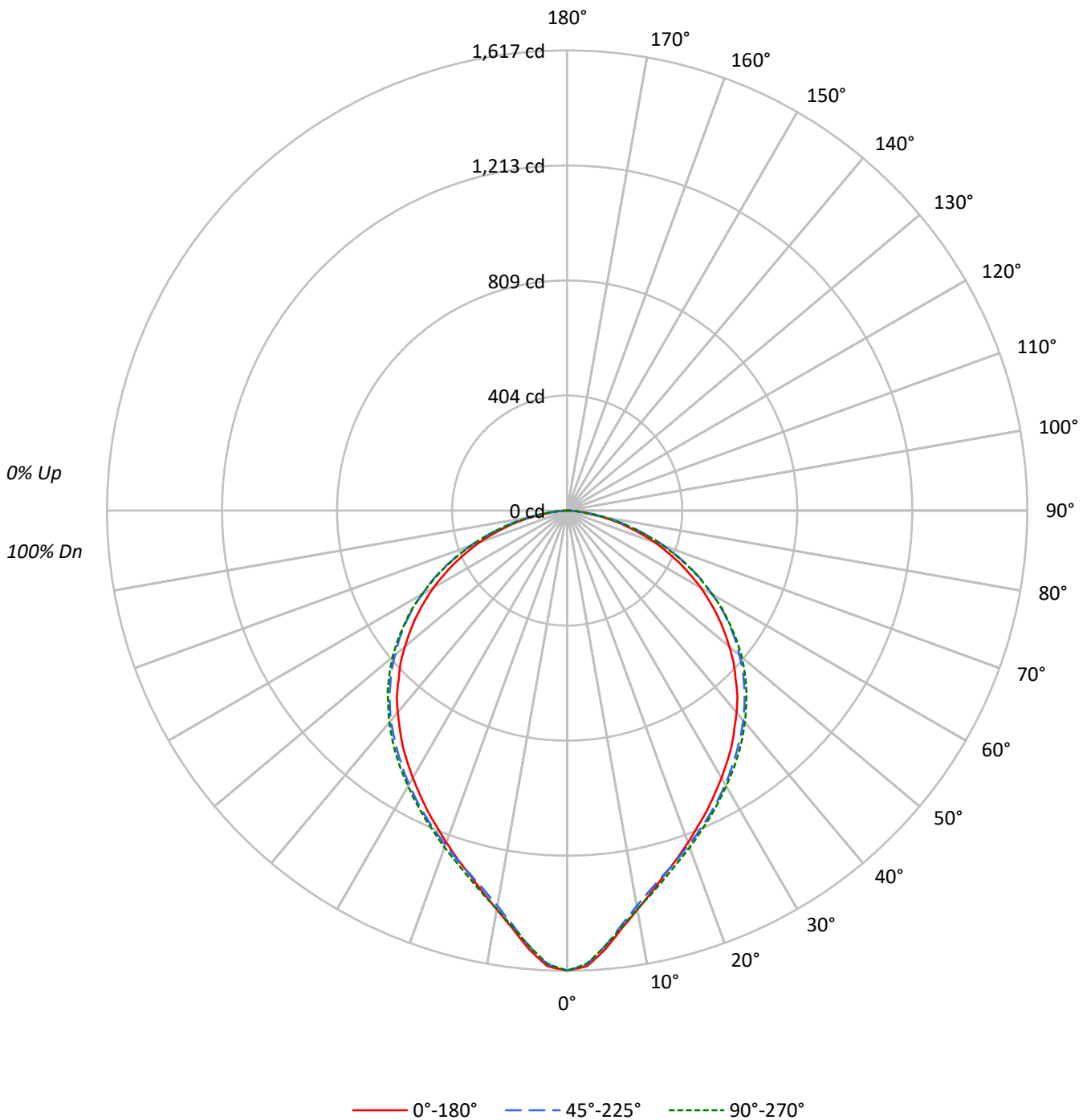
Lumens per Lamp: N/A
Luminaire Lumens: 3755.3 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P488830

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488830

CATALOG NUMBER: CLM-12-4-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°	4351	4351	4351
5°	4177	4148	4148
10°	3888	3853	3882
15°	3689	3682	3718
20°	3554	3579	3607
25°	3452	3508	3529
30°	3369	3452	3473
35°	3311	3408	3442
40°	3253	3385	3413
45°	3185	3352	3392
50°	3115	3310	3354
55°	3028	3262	3275
60°	2920	3172	3166
65°	2768	3051	3030
70°	2584	2845	2810
75°	2281	2520	2495
80°	1853	2053	1953
85°	1284	1309	1260



TEST NUMBER: P488830

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	3.8
10°-20°	374.2	10.0
20°-30°	544.1	14.5
30°-40°	647.5	17.2
40°-50°	672.4	17.9
50°-60°	609.1	16.2
60°-70°	459.6	12.2
70°-80°	250.4	6.7
80°-90°	55.0	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°	1061.2	28.3
0°-40°	1708.7	45.5
0°-60°	2990.2	79.6
0°-90°	3755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3755.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1546	1543	1536	1535	1536	144
15°	1324	1321	1322	1331	1335	374
25°	1163	1172	1182	1191	1188	536
35°	1008	1020	1037	1053	1048	630
45°	837	852	881	890	891	647
55°	646	661	695	700	698	576
65°	435	447	479	478	476	430
75°	219	228	242	244	240	234
85°	42	42	42	42	41	52
90°	0	0	0	0	0	



TEST NUMBER: P488830

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.7	1616.7	1616.7	1616.7	1616.7
2.5°	1602.6	1601.0	1595.7	1593.7	1593.3
5°	1546.4	1542.8	1535.5	1534.7	1535.5
7.5°	1479.4	1475.3	1468.1	1470.9	1474.5
10°	1422.8	1412.7	1409.9	1413.9	1420.8
12.5°	1372.3	1364.2	1361.8	1372.3	1377.2
15°	1324.2	1321.0	1321.8	1330.7	1334.7
17.5°	1282.6	1280.6	1285.9	1292.7	1294.8
20°	1241.0	1245.1	1249.9	1257.2	1259.6
22.5°	1200.2	1207.9	1216.0	1225.7	1222.4
25°	1162.7	1172.3	1181.6	1191.3	1188.5
27.5°	1122.6	1133.9	1146.9	1157.4	1153.3
30°	1084.3	1098.4	1110.9	1123.8	1117.8
32.5°	1046.3	1059.6	1074.6	1090.3	1083.5
35°	1007.9	1020.0	1037.4	1053.2	1047.9
37.5°	965.5	980.4	1000.2	1014.0	1010.4
40°	925.9	939.7	963.5	972.4	971.6
42.5°	885.9	897.2	922.3	932.4	930.8
45°	837.0	852.0	880.7	890.4	891.2
47.5°	793.8	806.3	837.0	844.7	846.3
50°	744.1	759.9	790.6	799.9	801.1
52.5°	695.2	712.2	743.7	750.2	751.4
55°	645.5	660.9	695.2	700.1	698.1
57.5°	593.4	612.0	643.5	646.0	648.0
60°	542.5	558.7	589.4	592.6	588.2
62.5°	487.2	503.8	535.3	536.1	532.4
65°	434.7	447.2	479.1	478.3	475.9
67.5°	379.7	395.1	418.5	419.3	417.3
70°	328.4	338.9	361.6	362.0	357.1
72.5°	273.1	284.4	302.6	300.2	299.0
75°	219.4	228.3	242.4	244.0	240.0
77.5°	170.1	176.5	187.0	185.8	181.4
80°	119.6	124.8	132.5	130.9	126.0
82.5°	76.3	79.6	84.4	82.4	80.4
85°	41.6	42.0	42.4	42.0	40.8
87.5°	15.3	15.8	15.8	15.3	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)