

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: P489252

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-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: P489252
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-24-2-INS-P12125-LD4-2HI-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

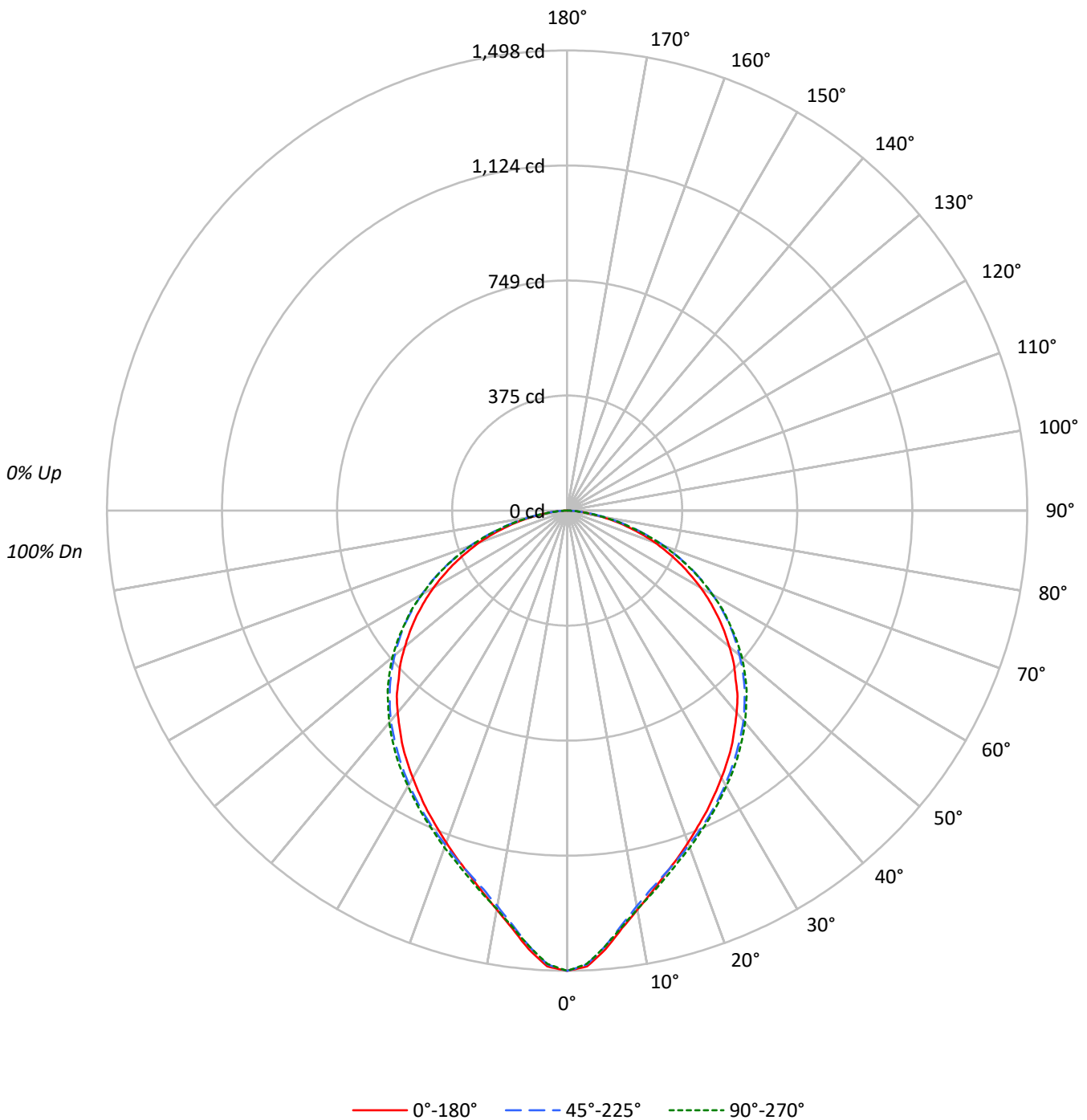
Lumens per Lamp: N/A
Luminaire Lumens: 3480.5 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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: P489252

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-27-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489252

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-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°	4032	4032	4032
5°	3872	3844	3844
10°	3603	3571	3598
15°	3419	3413	3446
20°	3294	3317	3343
25°	3200	3252	3271
30°	3123	3199	3219
35°	3069	3159	3190
40°	3015	3137	3163
45°	2952	3106	3143
50°	2887	3067	3108
55°	2807	3023	3035
60°	2706	2940	2934
65°	2565	2827	2808
70°	2395	2637	2604
75°	2114	2336	2312
80°	1717	1903	1810
85°	1192	1213	1167



TEST NUMBER: P489252

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	3.8
10°-20°	346.8	10.0
20°-30°	504.3	14.5
30°-40°	600.1	17.2
40°-50°	623.1	17.9
50°-60°	564.6	16.2
60°-70°	426.0	12.2
70°-80°	232.1	6.7
80°-90°	51.0	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°	983.5	28.3
0°-40°	1583.7	45.5
0°-60°	2771.4	79.6
0°-90°	3480.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3480.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1433	1430	1423	1422	1423	133
15°	1227	1224	1225	1233	1237	346
25°	1078	1086	1095	1104	1102	497
35°	934	945	962	976	971	584
45°	776	790	816	825	826	600
55°	598	612	644	649	647	534
65°	403	414	444	443	441	398
75°	203	212	225	226	222	217
85°	39	39	39	39	38	49
90°	0	0	0	0	0	



TEST NUMBER: P489252

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1485.3	1483.8	1478.9	1477.1	1476.7
5°	1433.3	1429.9	1423.1	1422.4	1423.1
7.5°	1371.1	1367.4	1360.6	1363.2	1366.6
10°	1318.7	1309.3	1306.7	1310.4	1316.8
12.5°	1271.9	1264.4	1262.1	1271.9	1276.4
15°	1227.3	1224.3	1225.1	1233.3	1237.1
17.5°	1188.8	1186.9	1191.8	1198.1	1200.0
20°	1150.2	1154.0	1158.4	1165.2	1167.4
22.5°	1112.4	1119.5	1127.0	1136.0	1133.0
25°	1077.6	1086.5	1095.2	1104.1	1101.5
27.5°	1040.5	1051.0	1063.0	1072.7	1068.9
30°	1004.9	1018.0	1029.6	1041.6	1036.0
32.5°	969.7	982.1	995.9	1010.5	1004.2
35°	934.2	945.4	961.5	976.1	971.2
37.5°	894.9	908.7	927.0	939.8	936.4
40°	858.2	870.9	893.0	901.2	900.5
42.5°	821.1	831.6	854.8	864.1	862.6
45°	775.8	789.6	816.2	825.2	826.0
47.5°	735.7	747.3	775.8	782.9	784.4
50°	689.7	704.3	732.7	741.3	742.5
52.5°	644.4	660.1	689.3	695.3	696.4
55°	598.3	612.5	644.4	648.9	647.0
57.5°	550.0	567.2	596.5	598.7	600.6
60°	502.8	517.8	546.3	549.3	545.2
62.5°	451.6	466.9	496.1	496.8	493.5
65°	402.9	414.5	444.0	443.3	441.0
67.5°	351.9	366.2	387.9	388.6	386.8
70°	304.4	314.1	335.1	335.5	331.0
72.5°	253.1	263.6	280.4	278.2	277.1
75°	203.3	211.5	224.7	226.2	222.4
77.5°	157.6	163.6	173.4	172.2	168.1
80°	110.8	115.7	122.8	121.3	116.8
82.5°	70.7	73.8	78.3	76.4	74.5
85°	38.6	38.9	39.3	38.9	37.8
87.5°	14.2	14.6	14.6	14.2	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)