

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: P489315

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-30-120-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: P489315  
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-LD4-3STD-30-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

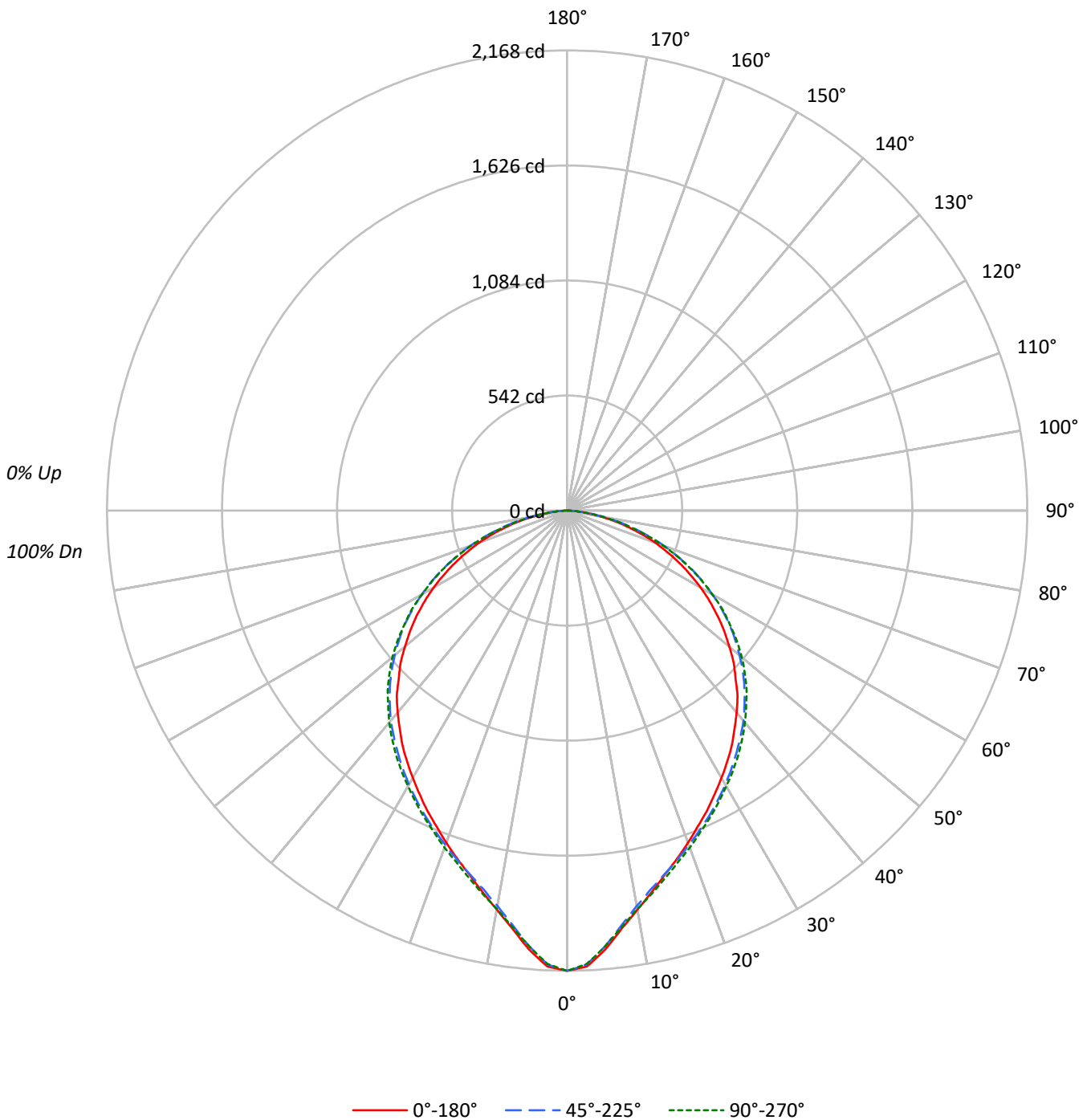
Lumens per Lamp: N/A  
Luminaire Lumens: 5037.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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: P489315

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-30-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489315

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-30-120-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	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°	5835	5835	5835
5°	5603	5564	5564
10°	5215	5167	5207
15°	4948	4939	4988
20°	4767	4801	4838
25°	4630	4706	4733
30°	4519	4630	4659
35°	4441	4571	4618
40°	4363	4540	4578
45°	4273	4495	4549
50°	4178	4439	4498
55°	4062	4375	4393
60°	3916	4255	4246
65°	3712	4092	4064
70°	3466	3816	3769
75°	3059	3380	3347
80°	2486	2754	2619
85°	1723	1757	1689



TEST NUMBER: P489315

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-30-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.6	3.8
10°-20°	501.9	10.0
20°-30°	729.9	14.5
30°-40°	868.5	17.2
40°-50°	901.8	17.9
50°-60°	817.0	16.2
60°-70°	616.5	12.2
70°-80°	335.9	6.7
80°-90°	73.8	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°	1423.4	28.3
0°-40°	2291.9	45.5
0°-60°	4010.8	79.6
0°-90°	5037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5037.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2168	2168	2168	2168	2168	
5°	2074	2069	2060	2058	2060	193
15°	1776	1772	1773	1785	1790	501
25°	1560	1572	1585	1598	1594	719
35°	1352	1368	1392	1413	1406	845
45°	1123	1143	1181	1194	1195	868
55°	866	886	932	939	936	773
65°	583	600	643	642	638	576
75°	294	306	325	327	322	313
85°	56	56	57	56	55	70
90°	0	0	0	0	0	



TEST NUMBER: P489315

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-30-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2168.5	2168.5	2168.5	2168.5	2168.5
2.5°	2149.5	2147.4	2140.3	2137.6	2137.1
5°	2074.2	2069.3	2059.6	2058.5	2059.6
7.5°	1984.3	1978.8	1969.1	1972.9	1977.8
10°	1908.4	1894.9	1891.0	1896.5	1905.7
12.5°	1840.7	1829.8	1826.6	1840.7	1847.2
15°	1776.2	1771.8	1773.0	1784.9	1790.3
17.5°	1720.4	1717.7	1724.7	1733.9	1736.7
20°	1664.6	1670.0	1676.5	1686.3	1689.5
22.5°	1609.9	1620.1	1631.0	1644.0	1639.7
25°	1559.5	1572.5	1584.9	1597.9	1594.2
27.5°	1505.8	1521.0	1538.3	1552.4	1547.0
30°	1454.3	1473.3	1490.1	1507.4	1499.3
32.5°	1403.4	1421.3	1441.3	1462.5	1453.3
35°	1351.9	1368.2	1391.5	1412.6	1405.6
37.5°	1295.0	1315.1	1341.6	1360.0	1355.2
40°	1241.9	1260.4	1292.3	1304.3	1303.2
42.5°	1188.3	1203.5	1237.1	1250.6	1248.4
45°	1122.7	1142.8	1181.2	1194.3	1195.3
47.5°	1064.7	1081.6	1122.7	1133.0	1135.2
50°	998.1	1019.2	1060.4	1072.9	1074.5
52.5°	932.5	955.3	997.5	1006.2	1007.9
55°	865.9	886.5	932.5	939.1	936.3
57.5°	796.0	820.9	863.2	866.4	869.1
60°	727.7	749.4	790.6	794.9	788.9
62.5°	653.5	675.7	718.0	719.0	714.1
65°	583.0	599.8	642.6	641.6	638.3
67.5°	509.3	529.9	561.4	562.4	559.8
70°	440.5	454.6	485.0	485.5	479.0
72.5°	366.3	381.5	405.8	402.6	401.0
75°	294.2	306.2	325.1	327.3	321.9
77.5°	228.1	236.8	250.9	249.3	243.3
80°	160.4	167.4	177.7	175.6	169.0
82.5°	102.4	106.8	113.3	110.5	107.8
85°	55.8	56.3	56.9	56.3	54.7
87.5°	20.6	21.1	21.1	20.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)