

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: P489318

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-40-120-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: P489318
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-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

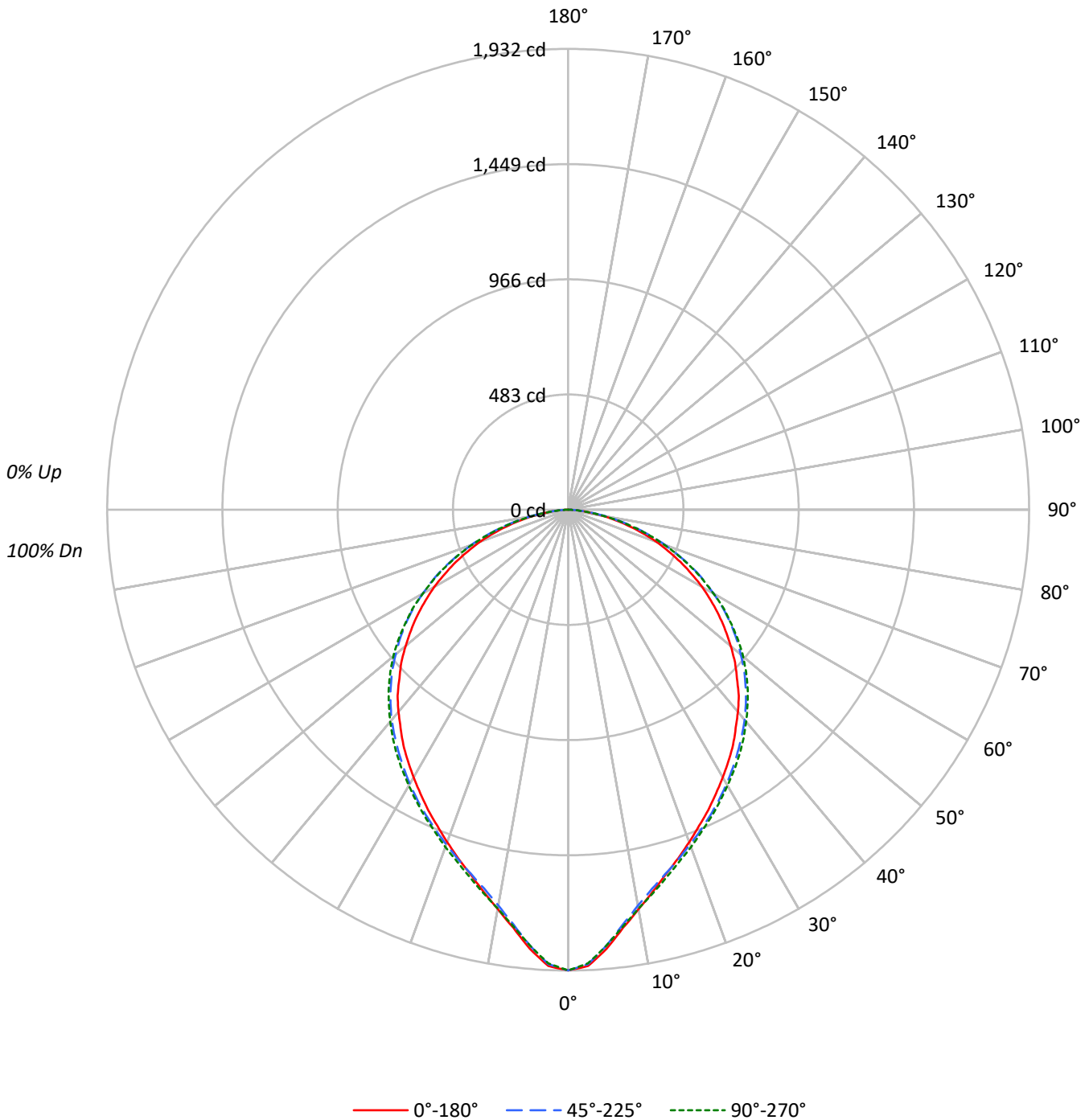
Lumens per Lamp: N/A
Luminaire Lumens: 4486.5 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P489318

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-40-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P489318

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-40-120-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°	5198	5198	5198
5°	4991	4955	4955
10°	4645	4603	4638
15°	4408	4400	4442
20°	4246	4276	4309
25°	4124	4192	4216
30°	4025	4124	4150
35°	3956	4072	4113
40°	3886	4044	4077
45°	3806	4004	4052
50°	3722	3954	4007
55°	3618	3897	3913
60°	3489	3790	3782
65°	3307	3645	3620
70°	3087	3399	3357
75°	2725	3011	2981
80°	2213	2453	2334
85°	1535	1565	1504



TEST NUMBER: P489318

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-40-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	3.8
10°-20°	447.1	10.0
20°-30°	650.1	14.5
30°-40°	773.6	17.2
40°-50°	803.3	17.9
50°-60°	727.7	16.2
60°-70°	549.1	12.2
70°-80°	299.2	6.7
80°-90°	65.7	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°	1267.8	28.3
0°-40°	2041.4	45.5
0°-60°	3572.4	79.6
0°-90°	4486.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4486.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1848	1843	1834	1834	1834	171
15°	1582	1578	1579	1590	1595	447
25°	1389	1401	1412	1423	1420	640
35°	1204	1219	1239	1258	1252	753
45°	1000	1018	1052	1064	1065	773
55°	771	790	831	836	834	689
65°	519	534	572	571	568	513
75°	262	273	290	292	287	279
85°	50	50	51	50	49	63
90°	0	0	0	0	0	



TEST NUMBER: P489318

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-40-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.5	1931.5	1931.5	1931.5	1931.5
2.5°	1914.6	1912.7	1906.4	1904.0	1903.5
5°	1847.5	1843.2	1834.5	1833.5	1834.5
7.5°	1767.4	1762.6	1753.9	1757.3	1761.6
10°	1699.8	1687.8	1684.4	1689.2	1697.4
12.5°	1639.5	1629.9	1626.9	1639.5	1645.3
15°	1582.1	1578.2	1579.2	1589.8	1594.6
17.5°	1532.4	1530.0	1536.2	1544.4	1546.9
20°	1482.7	1487.5	1493.3	1502.0	1504.8
22.5°	1433.9	1443.1	1452.7	1464.3	1460.5
25°	1389.0	1400.6	1411.7	1423.3	1419.9
27.5°	1341.2	1354.7	1370.2	1382.8	1377.9
30°	1295.4	1312.3	1327.2	1342.7	1335.5
32.5°	1250.0	1266.0	1283.8	1302.6	1294.4
35°	1204.2	1218.7	1239.4	1258.2	1252.0
37.5°	1153.5	1171.4	1195.0	1211.4	1207.1
40°	1106.2	1122.6	1151.1	1161.7	1160.7
42.5°	1058.4	1071.9	1101.9	1113.9	1112.0
45°	1000.0	1017.9	1052.1	1063.7	1064.7
47.5°	948.4	963.4	1000.0	1009.2	1011.1
50°	889.0	907.8	944.5	955.6	957.1
52.5°	830.6	850.9	888.5	896.2	897.7
55°	771.2	789.6	830.6	836.4	834.0
57.5°	709.0	731.2	768.9	771.7	774.1
60°	648.2	667.5	704.2	708.0	702.7
62.5°	582.1	601.8	639.5	640.4	636.1
65°	519.3	534.3	572.4	571.4	568.5
67.5°	453.7	472.0	500.0	501.0	498.6
70°	392.4	404.9	432.0	432.4	426.7
72.5°	326.3	339.8	361.5	358.6	357.2
75°	262.1	272.7	289.6	291.5	286.7
77.5°	203.2	210.9	223.5	222.0	216.7
80°	142.8	149.1	158.3	156.4	150.6
82.5°	91.2	95.1	100.9	98.5	96.0
85°	49.7	50.2	50.7	50.2	48.7
87.5°	18.3	18.8	18.8	18.3	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)