

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: P489259

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-40-120-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: P489259
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-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

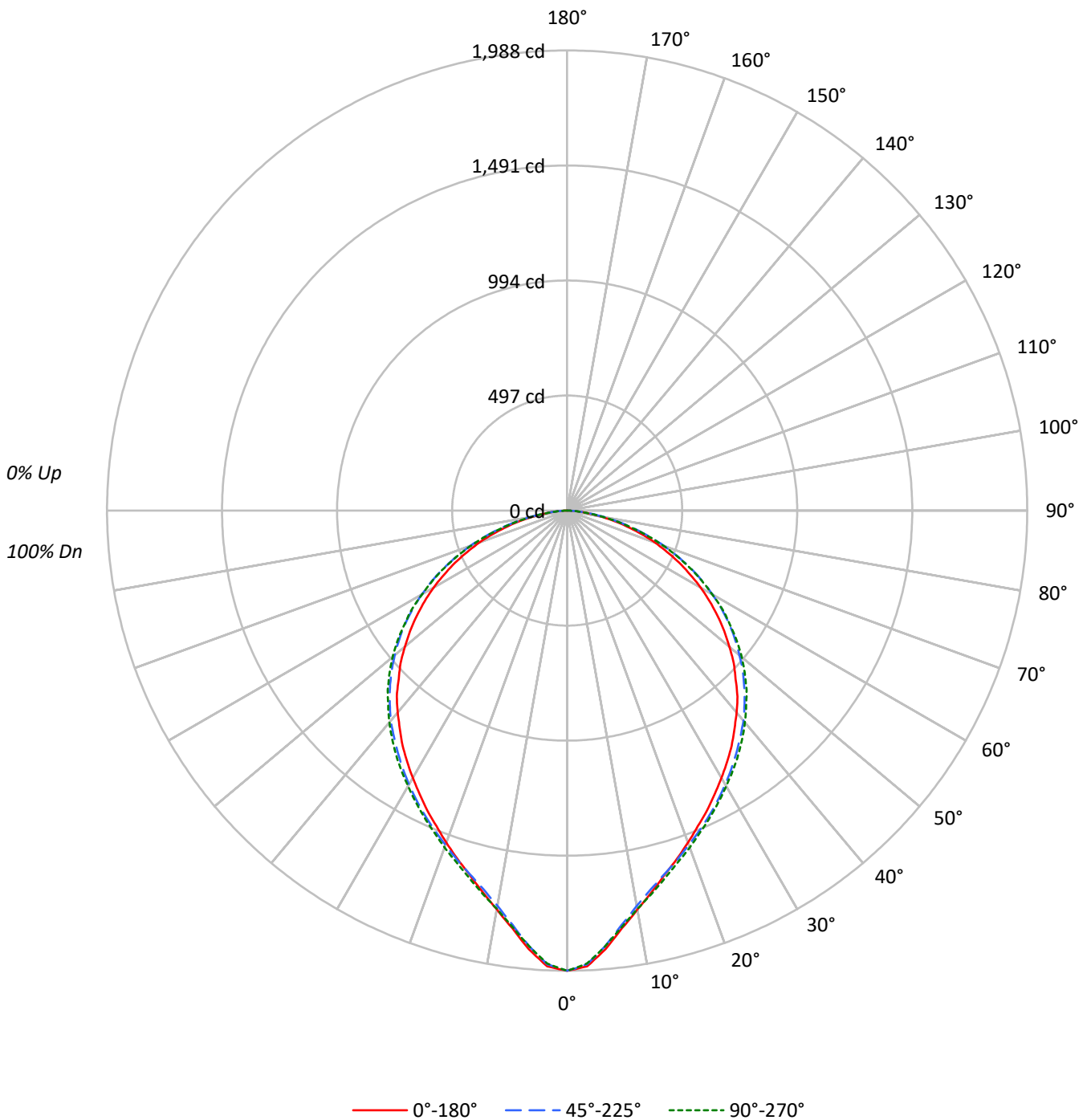
Lumens per Lamp: N/A
Luminaire Lumens: 4618.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P489259

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489259

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-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	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°	5350	5350	5350
5°	5137	5101	5101
10°	4781	4737	4774
15°	4537	4528	4573
20°	4370	4401	4436
25°	4245	4314	4339
30°	4143	4245	4271
35°	4072	4191	4233
40°	4000	4162	4197
45°	3917	4121	4171
50°	3831	4070	4124
55°	3724	4011	4027
60°	3591	3901	3893
65°	3403	3752	3726
70°	3178	3498	3456
75°	2805	3099	3068
80°	2278	2526	2402
85°	1581	1612	1550



TEST NUMBER: P489259

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.8
10°-20°	460.2	10.0
20°-30°	669.2	14.5
30°-40°	796.3	17.2
40°-50°	826.8	17.9
50°-60°	749.0	16.2
60°-70°	565.2	12.2
70°-80°	308.0	6.7
80°-90°	67.7	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°	1305.0	28.3
0°-40°	2101.3	45.5
0°-60°	3677.1	79.6
0°-90°	4618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1988	1988	1988	1988	1988	
5°	1902	1897	1888	1887	1888	176
15°	1628	1624	1626	1636	1641	460
25°	1430	1442	1453	1465	1462	659
35°	1240	1254	1276	1295	1289	775
45°	1029	1048	1083	1095	1096	796
55°	794	813	855	861	858	709
65°	534	550	589	588	585	528
75°	270	281	298	300	295	287
85°	51	52	52	52	50	65
90°	0	0	0	0	0	



TEST NUMBER: P489259

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2HI-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.1	1988.1	1988.1	1988.1	1988.1
2.5°	1970.7	1968.7	1962.3	1959.8	1959.3
5°	1901.7	1897.2	1888.3	1887.3	1888.3
7.5°	1819.2	1814.2	1805.3	1808.8	1813.3
10°	1749.7	1737.2	1733.7	1738.7	1747.2
12.5°	1687.5	1677.6	1674.6	1687.5	1693.5
15°	1628.4	1624.5	1625.5	1636.4	1641.3
17.5°	1577.3	1574.8	1581.3	1589.7	1592.2
20°	1526.1	1531.1	1537.0	1546.0	1549.0
22.5°	1475.9	1485.4	1495.3	1507.2	1503.3
25°	1429.7	1441.7	1453.1	1465.0	1461.5
27.5°	1380.6	1394.4	1410.4	1423.3	1418.3
30°	1333.3	1350.7	1366.2	1382.0	1374.6
32.5°	1286.7	1303.1	1321.4	1340.8	1332.4
35°	1239.5	1254.4	1275.7	1295.1	1288.7
37.5°	1187.3	1205.7	1230.0	1246.9	1242.5
40°	1138.6	1155.5	1184.8	1195.8	1194.7
42.5°	1089.4	1103.4	1134.2	1146.6	1144.6
45°	1029.3	1047.7	1083.0	1094.9	1095.9
47.5°	976.2	991.6	1029.3	1038.8	1040.7
50°	915.1	934.5	972.2	983.6	985.1
52.5°	854.9	875.8	914.6	922.5	924.0
55°	793.8	812.7	854.9	860.9	858.4
57.5°	729.8	752.6	791.4	794.3	796.8
60°	667.2	687.0	724.8	728.8	723.3
62.5°	599.1	619.5	658.2	659.2	654.7
65°	534.5	549.9	589.2	588.2	585.2
67.5°	467.0	485.8	514.7	515.6	513.2
70°	403.9	416.8	444.6	445.1	439.2
72.5°	335.8	349.7	372.1	369.1	367.6
75°	269.8	280.7	298.1	300.1	295.1
77.5°	209.2	217.1	230.0	228.5	223.0
80°	147.0	153.5	163.0	161.0	155.0
82.5°	93.9	97.9	103.8	101.3	98.9
85°	51.2	51.6	52.2	51.6	50.2
87.5°	18.9	19.4	19.4	18.9	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)