

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: P489321

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-50-120-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: P489321
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-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

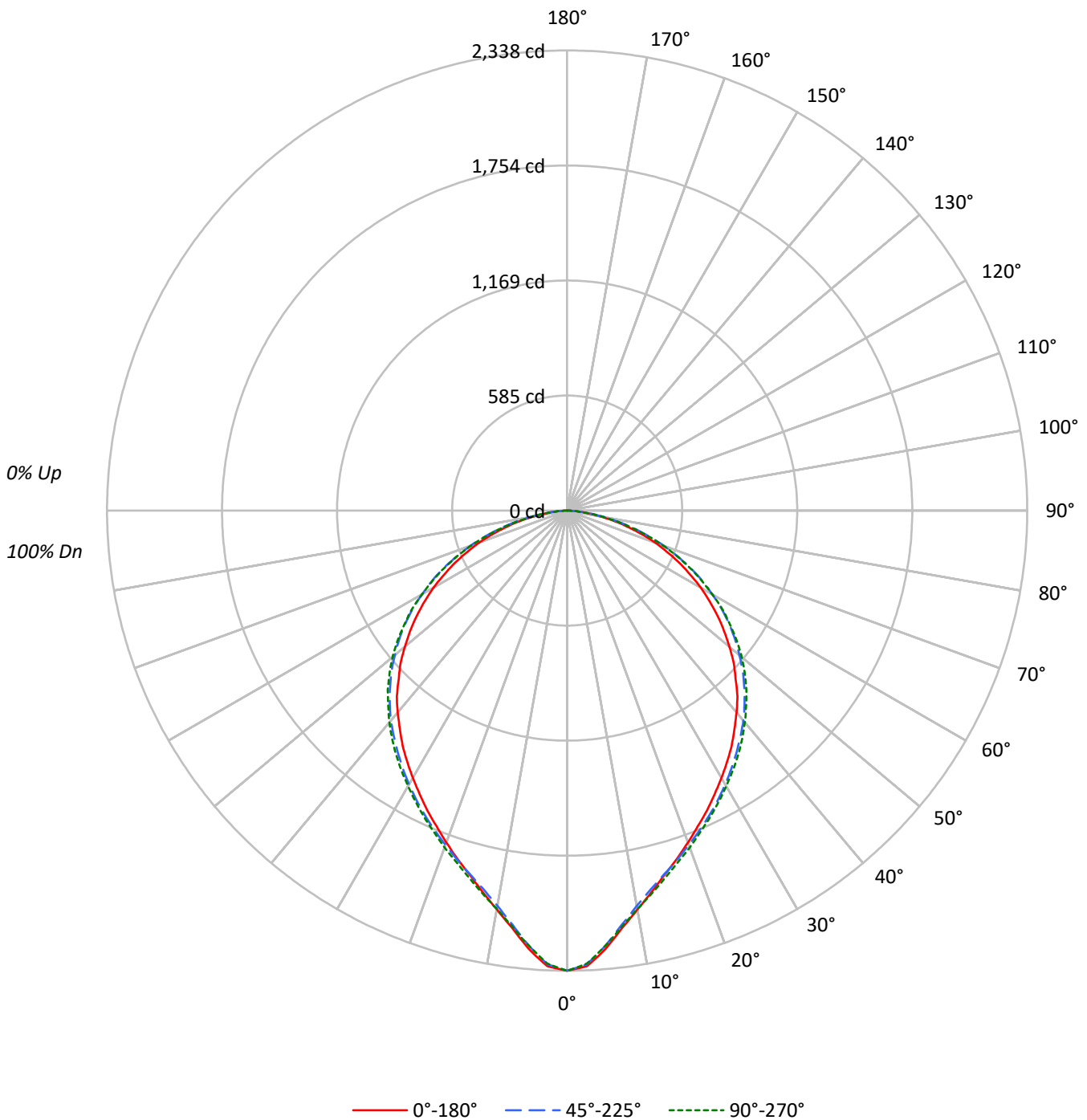
Lumens per Lamp: N/A
Luminaire Lumens: 5430.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P489321

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-50-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489321

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-50-120-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°	6291	6291	6291
5°	6040	5998	5998
10°	5622	5571	5614
15°	5334	5325	5377
20°	5139	5176	5216
25°	4992	5073	5103
30°	4872	4992	5023
35°	4788	4928	4978
40°	4703	4894	4935
45°	4606	4846	4904
50°	4505	4786	4850
55°	4380	4716	4736
60°	4222	4587	4577
65°	4002	4411	4381
70°	3736	4113	4063
75°	3298	3644	3608
80°	2679	2969	2824
85°	1859	1893	1822



TEST NUMBER: P489321

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-50-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	3.8
10°-20°	541.1	10.0
20°-30°	786.8	14.5
30°-40°	936.3	17.2
40°-50°	972.2	17.9
50°-60°	880.8	16.2
60°-70°	664.6	12.2
70°-80°	362.1	6.7
80°-90°	79.6	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°	1534.5	28.3
0°-40°	2470.8	45.5
0°-60°	4323.9	79.6
0°-90°	5430.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5430.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2338	2338	2338	2338	2338	
5°	2236	2231	2220	2219	2220	208
15°	1915	1910	1911	1924	1930	540
25°	1681	1695	1709	1723	1719	775
35°	1458	1475	1500	1523	1515	911
45°	1210	1232	1273	1288	1289	936
55°	934	956	1005	1012	1009	833
65°	628	647	693	692	688	621
75°	317	330	350	353	347	338
85°	60	61	61	61	59	76
90°	0	0	0	0	0	



TEST NUMBER: P489321

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-50-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2337.8	2337.8	2337.8	2337.8	2337.8
2.5°	2317.3	2315.0	2307.4	2304.5	2303.9
5°	2236.1	2230.9	2220.4	2219.2	2220.4
7.5°	2139.2	2133.3	2122.8	2126.9	2132.2
10°	2057.4	2042.8	2038.7	2044.5	2054.5
12.5°	1984.3	1972.7	1969.2	1984.3	1991.4
15°	1914.8	1910.2	1911.4	1924.2	1930.0
17.5°	1854.7	1851.8	1859.4	1869.3	1872.2
20°	1794.5	1800.4	1807.4	1817.9	1821.4
22.5°	1735.5	1746.6	1758.3	1772.3	1767.7
25°	1681.2	1695.2	1708.7	1722.7	1718.6
27.5°	1623.4	1639.7	1658.4	1673.6	1667.7
30°	1567.8	1588.3	1606.4	1625.1	1616.4
32.5°	1513.0	1532.2	1553.8	1576.6	1566.7
35°	1457.5	1475.0	1500.1	1522.9	1515.3
37.5°	1396.1	1417.7	1446.3	1466.2	1461.0
40°	1338.9	1358.7	1393.2	1406.1	1404.9
42.5°	1281.0	1297.4	1333.6	1348.2	1345.9
45°	1210.4	1232.0	1273.4	1287.5	1288.6
47.5°	1147.9	1166.0	1210.4	1221.5	1223.8
50°	1076.0	1098.8	1143.2	1156.6	1158.4
52.5°	1005.3	1029.8	1075.4	1084.8	1086.5
55°	933.5	955.7	1005.3	1012.4	1009.4
57.5°	858.1	885.0	930.6	934.1	937.0
60°	784.5	807.9	852.3	856.9	850.5
62.5°	704.5	728.4	774.0	775.2	769.9
65°	628.5	646.7	692.8	691.6	688.1
67.5°	549.1	571.3	605.2	606.3	603.5
70°	474.9	490.1	522.8	523.4	516.4
72.5°	394.9	411.2	437.5	434.0	432.3
75°	317.2	330.1	350.5	352.8	347.0
77.5°	245.9	255.3	270.5	268.7	262.3
80°	172.9	180.5	191.6	189.3	182.2
82.5°	110.4	115.1	122.1	119.2	116.2
85°	60.2	60.7	61.3	60.7	59.0
87.5°	22.2	22.8	22.8	22.2	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)