

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: P489313

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-27-120-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: P489313  
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-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

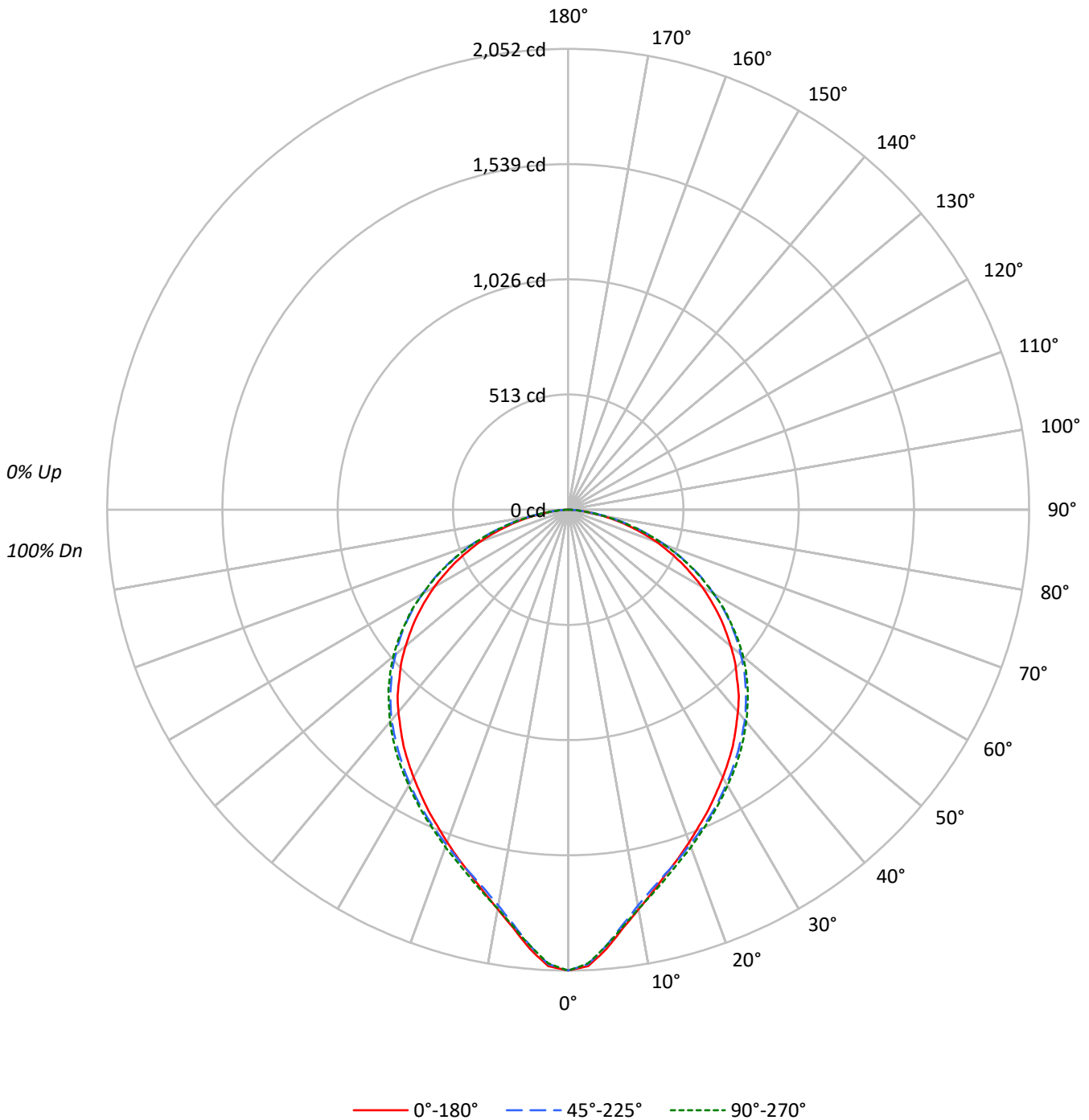
Lumens per Lamp: N/A  
Luminaire Lumens: 4766.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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: P489313

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-27-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489313

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-27-120-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°	5521	5521	5521
5°	5301	5264	5264
10°	4934	4889	4927
15°	4682	4674	4719
20°	4510	4543	4578
25°	4381	4453	4479
30°	4276	4381	4408
35°	4202	4325	4369
40°	4128	4295	4331
45°	4043	4254	4304
50°	3954	4201	4256
55°	3844	4139	4157
60°	3705	4026	4018
65°	3512	3871	3845
70°	3279	3611	3566
75°	2895	3198	3166
80°	2351	2607	2478
85°	1630	1661	1599



TEST NUMBER: P489313

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-27-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.3	3.8
10°-20°	474.9	10.0
20°-30°	690.6	14.5
30°-40°	821.8	17.2
40°-50°	853.3	17.9
50°-60°	773.1	16.2
60°-70°	583.3	12.2
70°-80°	317.8	6.7
80°-90°	69.8	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°	1346.8	28.3
0°-40°	2168.6	45.5
0°-60°	3795.0	79.6
0°-90°	4766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	1963	1958	1949	1948	1949	182
15°	1681	1676	1678	1689	1694	474
25°	1476	1488	1500	1512	1508	680
35°	1279	1295	1317	1337	1330	800
45°	1062	1081	1118	1130	1131	821
55°	819	839	882	888	886	732
65°	552	568	608	607	604	545
75°	278	290	308	310	304	297
85°	53	53	54	53	52	67
90°	0	0	0	0	0	



TEST NUMBER: P489313

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-3STD-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2051.8	2051.8	2051.8	2051.8	2051.8
2.5°	2033.9	2031.8	2025.2	2022.6	2022.1
5°	1962.6	1958.0	1948.8	1947.8	1948.8
7.5°	1877.5	1872.4	1863.2	1866.8	1871.4
10°	1805.7	1792.9	1789.3	1794.4	1803.2
12.5°	1741.6	1731.4	1728.3	1741.6	1747.8
15°	1680.6	1676.5	1677.6	1688.9	1694.0
17.5°	1627.8	1625.3	1631.9	1640.7	1643.2
20°	1575.0	1580.2	1586.3	1595.5	1598.6
22.5°	1523.2	1533.0	1543.2	1555.5	1551.4
25°	1475.6	1487.9	1499.7	1512.0	1508.4
27.5°	1424.8	1439.1	1455.6	1468.9	1463.8
30°	1376.1	1394.0	1409.9	1426.3	1418.6
32.5°	1327.9	1344.8	1363.8	1383.8	1375.1
35°	1279.2	1294.6	1316.6	1336.6	1330.0
37.5°	1225.4	1244.3	1269.4	1286.9	1282.3
40°	1175.1	1192.6	1222.8	1234.1	1233.0
42.5°	1124.3	1138.7	1170.5	1183.3	1181.3
45°	1062.3	1081.3	1117.7	1130.0	1131.0
47.5°	1007.5	1023.4	1062.3	1072.0	1074.1
50°	944.4	964.4	1003.4	1015.1	1016.7
52.5°	882.3	903.9	943.9	952.1	953.6
55°	819.3	838.8	882.3	888.5	886.0
57.5°	753.2	776.7	816.8	819.8	822.4
60°	688.5	709.1	748.0	752.1	746.5
62.5°	618.3	639.3	679.3	680.3	675.7
65°	551.6	567.6	608.0	607.0	603.9
67.5°	481.9	501.4	531.2	532.2	529.6
70°	416.8	430.1	458.9	459.4	453.2
72.5°	346.6	360.9	384.0	380.9	379.4
75°	278.4	289.7	307.6	309.7	304.5
77.5°	215.9	224.1	237.4	235.9	230.2
80°	151.7	158.4	168.2	166.1	159.9
82.5°	96.9	101.0	107.2	104.6	102.0
85°	52.8	53.3	53.8	53.3	51.8
87.5°	19.5	20.0	20.0	19.5	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)