

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: P489261

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-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: P489261
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-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

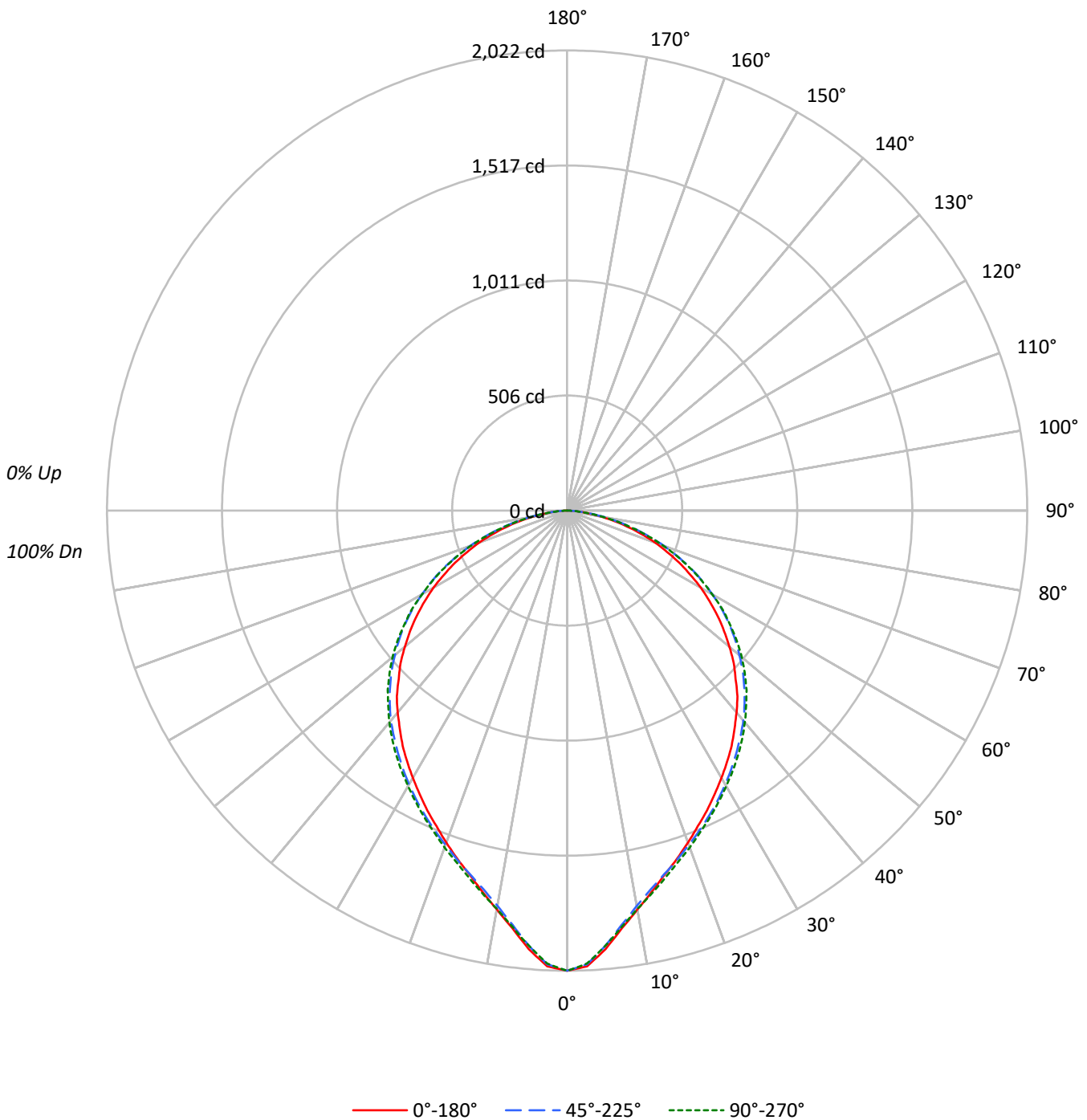
Lumens per Lamp: N/A
Luminaire Lumens: 4696.4 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P489261

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

Luminous Intensity Polar Plot





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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°	5441	5441	5441
5°	5224	5187	5187
10°	4862	4818	4855
15°	4614	4605	4650
20°	4444	4476	4511
25°	4317	4388	4413
30°	4213	4317	4344
35°	4141	4262	4305
40°	4068	4233	4268
45°	3984	4192	4241
50°	3896	4139	4194
55°	3788	4079	4096
60°	3652	3967	3959
65°	3461	3815	3789
70°	3231	3558	3514
75°	2852	3151	3120
80°	2317	2568	2442
85°	1606	1636	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.8
10°-20°	468.0	10.0
20°-30°	680.5	14.5
30°-40°	809.8	17.2
40°-50°	840.8	17.9
50°-60°	761.8	16.2
60°-70°	574.8	12.2
70°-80°	313.2	6.7
80°-90°	68.8	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°	1327.1	28.3
0°-40°	2136.9	45.5
0°-60°	3739.6	79.6
0°-90°	4696.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4696.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2022	2022	2022	2022	2022	
5°	1934	1929	1920	1919	1920	179
15°	1656	1652	1653	1664	1669	467
25°	1454	1466	1478	1490	1486	670
35°	1260	1276	1297	1317	1310	788
45°	1047	1066	1101	1114	1114	809
55°	807	826	870	876	873	721
65°	544	559	599	598	595	537
75°	274	286	303	305	300	292
85°	52	52	53	52	51	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2021.9	2021.9	2021.9	2021.9	2021.9
2.5°	2004.2	2002.2	1995.6	1993.1	1992.5
5°	1934.0	1929.4	1920.3	1919.3	1920.3
7.5°	1850.1	1845.0	1836.0	1839.5	1844.0
10°	1779.4	1766.7	1763.2	1768.2	1776.8
12.5°	1716.2	1706.1	1703.1	1716.2	1722.3
15°	1656.1	1652.0	1653.1	1664.2	1669.2
17.5°	1604.1	1601.5	1608.1	1616.7	1619.2
20°	1552.0	1557.1	1563.1	1572.2	1575.3
22.5°	1501.0	1510.6	1520.7	1532.8	1528.8
25°	1454.0	1466.1	1477.8	1489.9	1486.4
27.5°	1404.0	1418.1	1434.3	1447.4	1442.4
30°	1356.0	1373.7	1389.3	1405.5	1397.9
32.5°	1308.5	1325.2	1343.9	1363.6	1355.0
35°	1260.5	1275.7	1297.4	1317.1	1310.5
37.5°	1207.5	1226.2	1250.9	1268.1	1263.6
40°	1158.0	1175.1	1204.9	1216.1	1215.0
42.5°	1107.9	1122.1	1153.4	1166.0	1164.0
45°	1046.8	1065.5	1101.4	1113.5	1114.5
47.5°	992.8	1008.4	1046.8	1056.4	1058.4
50°	930.6	950.3	988.7	1000.3	1001.9
52.5°	869.5	890.7	930.1	938.2	939.7
55°	807.3	826.5	869.5	875.6	873.0
57.5°	742.2	765.4	804.8	807.8	810.4
60°	678.5	698.7	737.1	741.1	735.6
62.5°	609.3	630.0	669.4	670.4	665.9
65°	543.6	559.3	599.2	598.2	595.1
67.5°	474.9	494.1	523.4	524.4	521.9
70°	410.7	423.9	452.2	452.7	446.6
72.5°	341.5	355.7	378.4	375.4	373.9
75°	274.3	285.5	303.1	305.2	300.1
77.5°	212.7	220.8	233.9	232.4	226.8
80°	149.5	156.1	165.7	163.7	157.6
82.5°	95.5	99.5	105.6	103.1	100.5
85°	52.0	52.5	53.0	52.5	51.0
87.5°	19.2	19.7	19.7	19.2	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)