

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: P488945

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-35-120-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: P488945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-3LO-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

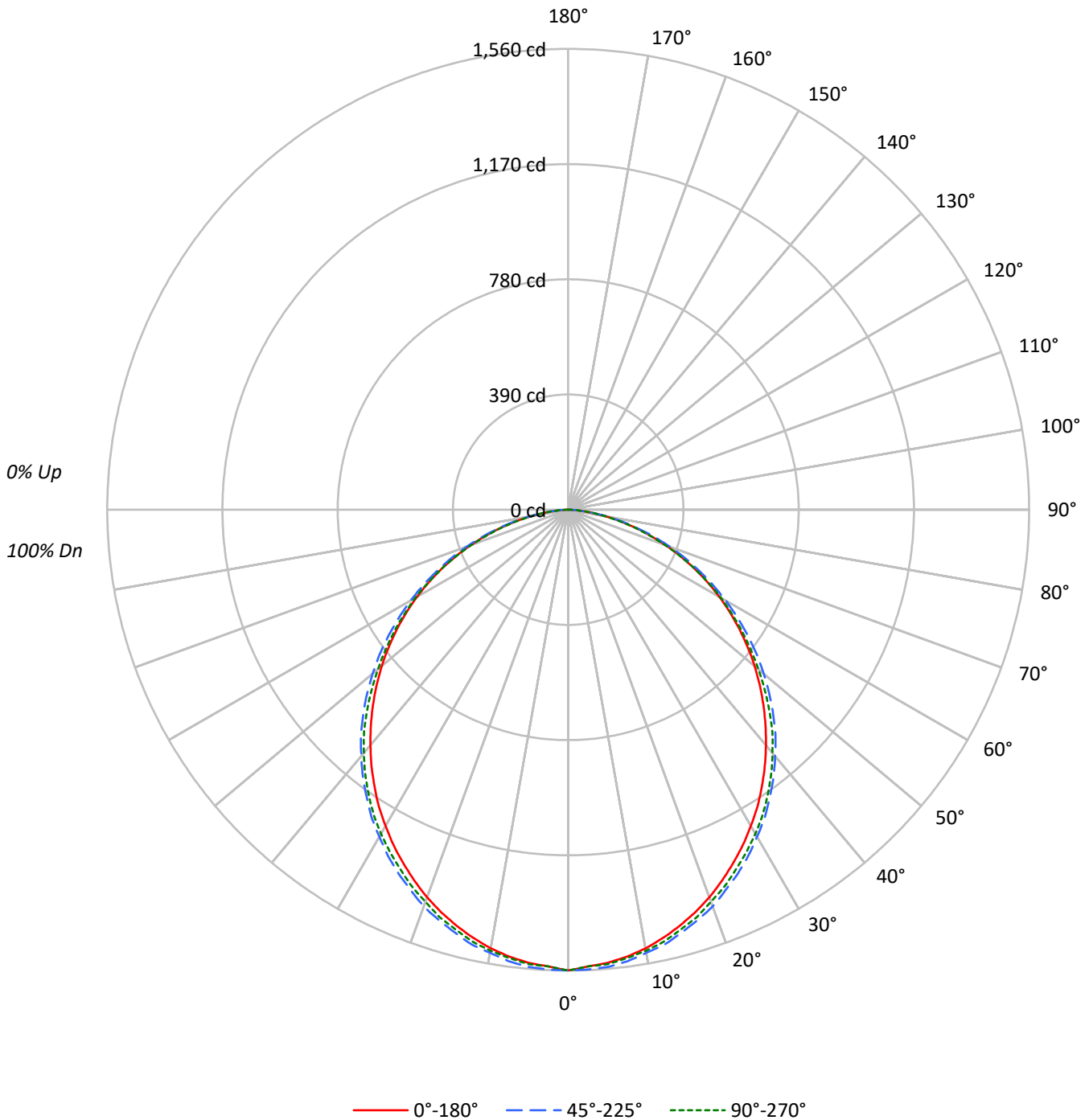
Lumens per Lamp: N/A
Luminaire Lumens: 4100.2 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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: P488945

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488945

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-35-120-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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4197	4197	4197
5°	4158	4197	4171
10°	4120	4162	4142
15°	4063	4128	4099
20°	3999	4094	4045
25°	3921	4035	3988
30°	3842	3972	3936
35°	3755	3904	3868
40°	3658	3826	3778
45°	3555	3734	3664
50°	3448	3615	3520
55°	3323	3478	3372
60°	3181	3314	3211
65°	2998	3113	3000
70°	2759	2870	2729
75°	2430	2539	2392
80°	1974	2060	1951
85°	1374	1463	1430



TEST NUMBER: P488945

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.6
10°-20°	416.2	10.2
20°-30°	620.8	15.1
30°-40°	735.6	17.9
40°-50°	744.4	18.2
50°-60°	650.1	15.9
60°-70°	475.1	11.6
70°-80°	252.8	6.2
80°-90°	58.4	1.4
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°	1183.9	28.9
0°-40°	1919.5	46.8
0°-60°	3314.0	80.8
0°-90°	4100.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4100.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1539	1542	1554	1557	1544	146
15°	1458	1468	1482	1491	1472	411
25°	1320	1337	1359	1364	1343	608
35°	1143	1161	1188	1197	1177	715
45°	934	951	981	982	963	721
55°	708	723	741	731	719	633
65°	471	480	489	479	471	466
75°	234	239	244	235	230	248
85°	44	45	47	48	46	56
90°	0	0	0	0	0	



TEST NUMBER: P488945

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	1547.4	1552.4	1557.6	1559.9	1547.2
5°	1539.3	1542.2	1553.7	1557.3	1544.1
7.5°	1525.9	1530.3	1541.5	1543.2	1530.5
10°	1507.7	1515.5	1523.0	1531.1	1515.7
12.5°	1484.5	1495.1	1507.7	1509.2	1497.5
15°	1458.3	1468.1	1481.9	1490.8	1471.5
17.5°	1429.1	1438.5	1456.4	1458.0	1446.3
20°	1396.4	1408.1	1429.6	1433.3	1412.4
22.5°	1359.4	1375.1	1393.0	1396.6	1381.2
25°	1320.5	1336.8	1358.9	1363.9	1343.3
27.5°	1279.9	1295.5	1320.4	1324.0	1306.6
30°	1236.4	1251.0	1278.3	1284.3	1266.6
32.5°	1192.2	1206.8	1237.0	1242.1	1224.8
35°	1143.1	1161.0	1188.4	1196.7	1177.4
37.5°	1093.1	1110.5	1141.6	1149.1	1128.3
40°	1041.2	1058.5	1089.2	1095.3	1075.4
42.5°	988.3	1005.5	1038.3	1039.3	1022.7
45°	934.1	950.7	981.3	982.1	962.7
47.5°	879.2	896.0	923.3	920.2	902.0
50°	823.7	839.6	863.5	857.3	840.9
52.5°	766.1	781.6	804.2	794.1	778.6
55°	708.3	722.6	741.4	730.7	718.7
57.5°	650.0	664.4	678.9	668.0	657.6
60°	591.1	603.8	615.7	604.6	596.7
62.5°	531.3	542.2	552.5	541.9	534.4
65°	470.9	480.5	488.9	479.2	471.2
67.5°	410.8	418.9	426.7	416.6	408.3
70°	350.7	357.6	364.8	354.4	346.8
72.5°	291.3	297.5	303.9	293.8	287.1
75°	233.7	239.0	244.2	235.3	230.1
77.5°	178.6	183.1	186.7	181.0	176.0
80°	127.4	130.8	132.9	130.6	125.9
82.5°	81.9	84.3	85.5	85.3	82.2
85°	44.5	45.3	47.4	47.9	46.3
87.5°	17.2	18.4	18.8	20.3	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)