

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: P488947

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-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: P488947
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-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

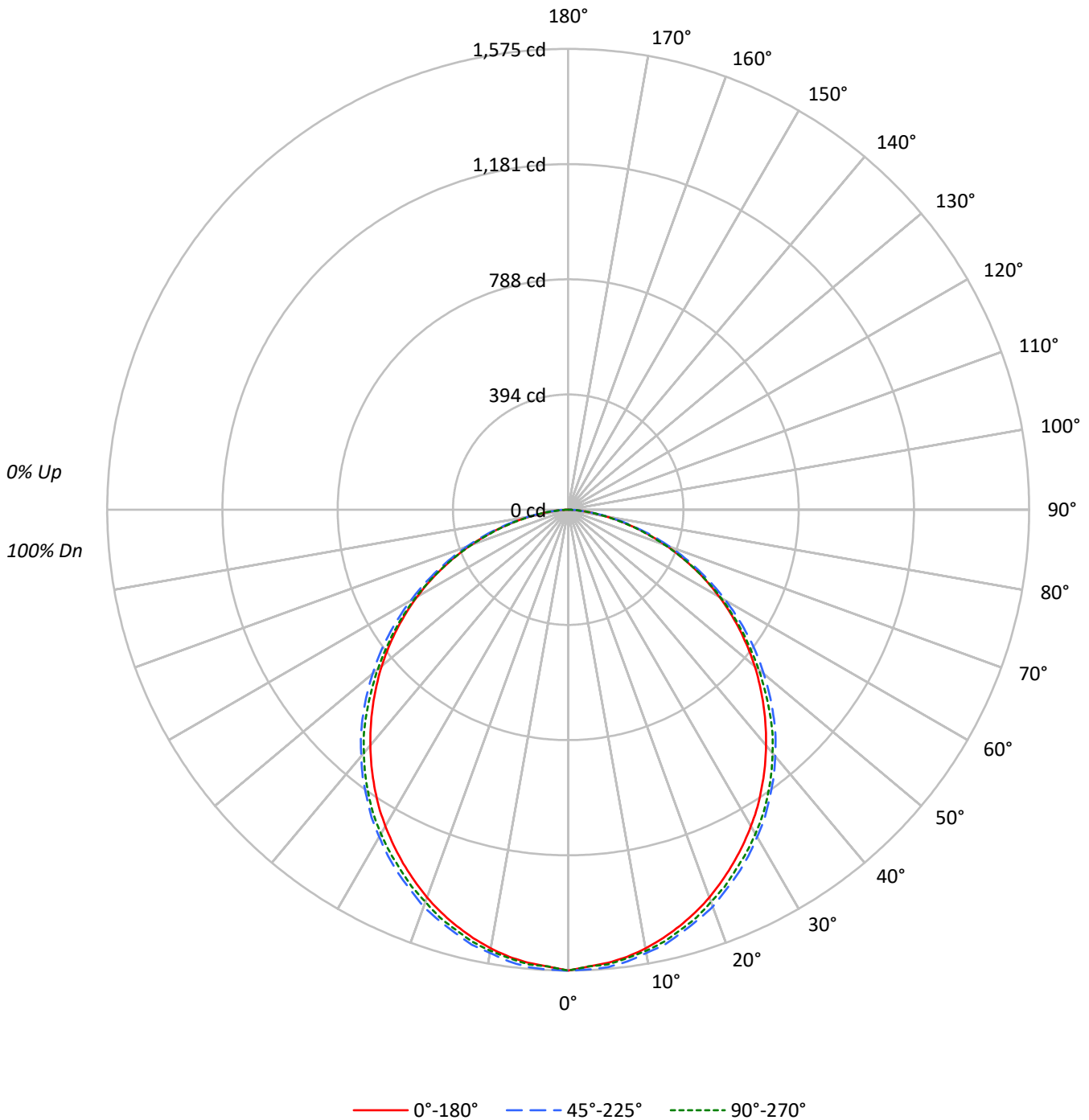
Lumens per Lamp: N/A
Luminaire Lumens: 4141.2 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P488947

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-3LO-40-120-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	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°	4239	4239	4239
5°	4200	4239	4213
10°	4161	4203	4183
15°	4103	4170	4140
20°	4039	4135	4085
25°	3960	4075	4028
30°	3880	4012	3975
35°	3793	3943	3907
40°	3694	3864	3815
45°	3591	3772	3701
50°	3483	3651	3556
55°	3356	3514	3406
60°	3213	3347	3243
65°	3028	3144	3030
70°	2787	2899	2755
75°	2454	2565	2416
80°	1994	2080	1971
85°	1389	1479	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.6
10°-20°	420.4	10.2
20°-30°	627.0	15.1
30°-40°	743.0	17.9
40°-50°	751.8	18.2
50°-60°	656.6	15.9
60°-70°	479.8	11.6
70°-80°	255.3	6.2
80°-90°	59.0	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°	1195.7	28.9
0°-40°	1938.7	46.8
0°-60°	3347.1	80.8
0°-90°	4141.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1555	1558	1569	1573	1560	147
15°	1473	1483	1497	1506	1486	415
25°	1334	1350	1372	1378	1357	614
35°	1154	1173	1200	1209	1189	722
45°	944	960	991	992	972	728
55°	715	730	749	738	726	639
65°	476	485	494	484	476	471
75°	236	241	247	238	232	251
85°	45	46	48	48	47	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.2	1575.2	1575.2	1575.2	1575.2
2.5°	1562.9	1567.9	1573.2	1575.5	1562.7
5°	1554.7	1557.6	1569.3	1572.9	1559.6
7.5°	1541.2	1545.6	1556.9	1558.6	1545.8
10°	1522.8	1530.7	1538.2	1546.4	1530.9
12.5°	1499.3	1510.0	1522.8	1524.3	1512.5
15°	1472.9	1482.8	1496.7	1505.7	1486.2
17.5°	1443.4	1452.9	1471.0	1472.6	1460.8
20°	1410.4	1422.2	1443.9	1447.6	1426.5
22.5°	1373.0	1388.9	1406.9	1410.6	1395.0
25°	1333.8	1350.2	1372.5	1377.6	1356.7
27.5°	1292.7	1308.5	1333.6	1337.2	1319.6
30°	1248.7	1263.5	1291.1	1297.2	1279.3
32.5°	1204.1	1218.9	1249.4	1254.5	1237.1
35°	1154.5	1172.6	1200.3	1208.7	1189.2
37.5°	1104.0	1121.6	1153.1	1160.6	1139.6
40°	1051.6	1069.0	1100.1	1106.3	1086.1
42.5°	998.1	1015.5	1048.7	1049.7	1032.9
45°	943.5	960.2	991.1	991.9	972.4
47.5°	888.0	904.9	932.5	929.4	911.0
50°	831.9	848.0	872.1	865.9	849.3
52.5°	773.8	789.4	812.2	802.0	786.4
55°	715.4	729.8	748.9	738.0	725.9
57.5°	656.5	671.1	685.7	674.7	664.2
60°	597.0	609.8	621.8	610.7	602.6
62.5°	536.7	547.6	558.0	547.3	539.8
65°	475.6	485.3	493.8	484.0	475.9
67.5°	414.9	423.1	431.0	420.8	412.4
70°	354.2	361.2	368.4	357.9	350.2
72.5°	294.3	300.5	306.9	296.7	290.0
75°	236.0	241.4	246.7	237.6	232.4
77.5°	180.4	185.0	188.6	182.8	177.7
80°	128.7	132.1	134.2	131.9	127.2
82.5°	82.7	85.2	86.3	86.2	83.0
85°	45.0	45.8	47.9	48.4	46.8
87.5°	17.4	18.5	19.0	20.5	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)