

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: P488902

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-20-120-EDD-90**

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: P488902
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-LD4-2LO-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

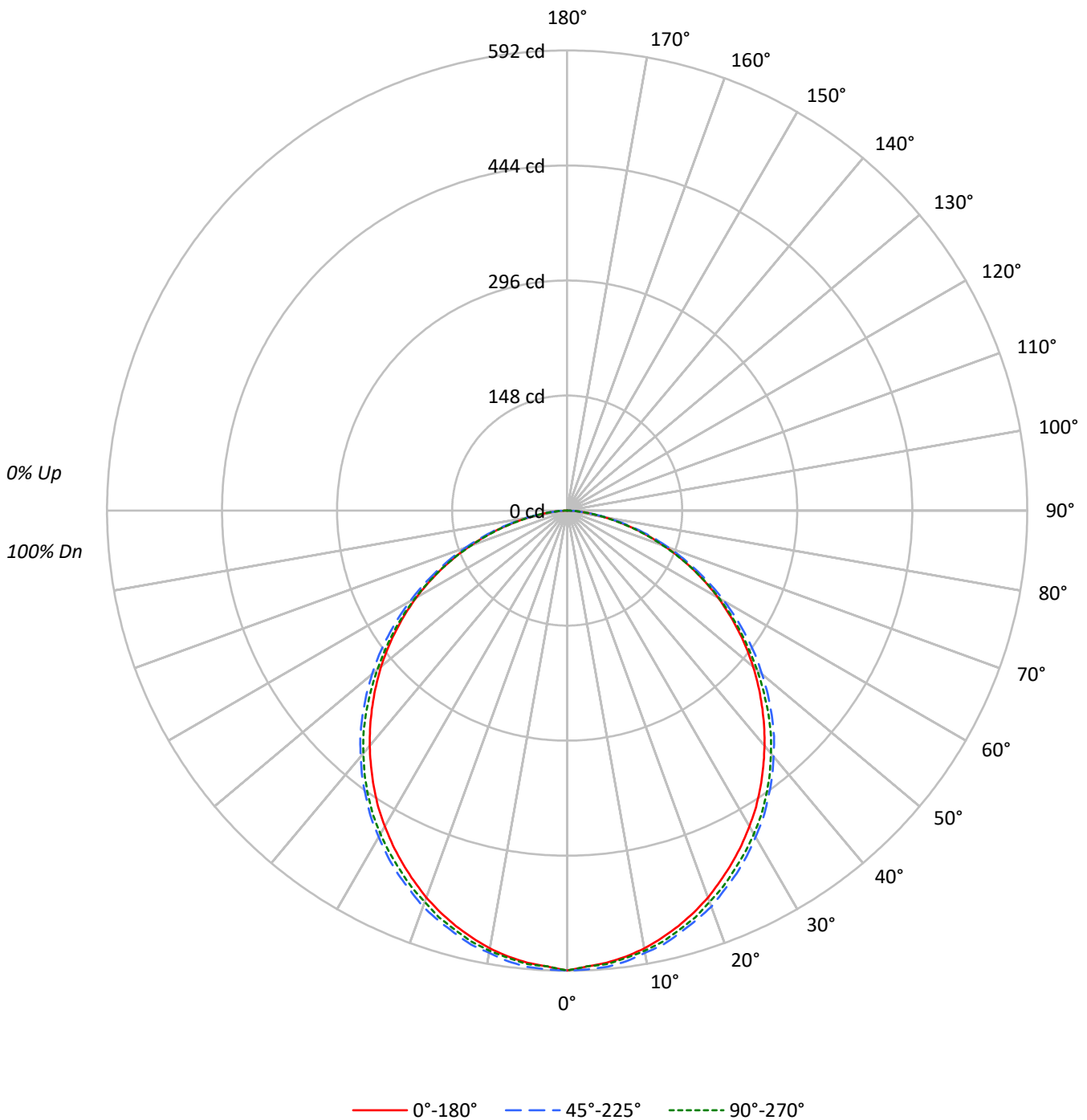
Lumens per Lamp: N/A
Luminaire Lumens: 1555.3 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P488902

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2LO-20-120-EDD-90

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°	1592	1592	1592
5°	1577	1592	1582
10°	1563	1579	1571
15°	1541	1566	1555
20°	1517	1553	1534
25°	1487	1531	1513
30°	1457	1507	1493
35°	1424	1481	1467
40°	1388	1451	1433
45°	1348	1416	1390
50°	1308	1371	1335
55°	1261	1319	1279
60°	1207	1257	1218
65°	1137	1181	1138
70°	1046	1089	1035
75°	921	963	908
80°	748	781	741
85°	522	556	543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.6
10°-20°	157.9	10.2
20°-30°	235.5	15.1
30°-40°	279.0	17.9
40°-50°	282.3	18.2
50°-60°	246.6	15.9
60°-70°	180.2	11.6
70°-80°	95.9	6.2
80°-90°	22.2	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°	449.1	28.9
0°-40°	728.1	46.8
0°-60°	1257.0	80.8
0°-90°	1555.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1555.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	584	585	589	591	586	55
15°	553	557	562	566	558	156
25°	501	507	516	517	510	231
35°	434	440	451	454	447	271
45°	354	361	372	372	365	273
55°	269	274	281	277	273	240
65°	179	182	186	182	179	177
75°	89	91	93	89	87	94
85°	17	17	18	18	18	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	591.6	591.6	591.6	591.6	591.6
2.5°	587.0	588.9	590.8	591.7	586.9
5°	583.9	585.0	589.4	590.7	585.7
7.5°	578.8	580.5	584.7	585.4	580.5
10°	571.9	574.9	577.7	580.8	574.9
12.5°	563.1	567.1	571.9	572.5	568.0
15°	553.2	556.9	562.1	565.5	558.2
17.5°	542.1	545.7	552.4	553.1	548.6
20°	529.7	534.1	542.3	543.7	535.7
22.5°	515.6	521.6	528.4	529.8	523.9
25°	500.9	507.1	515.5	517.4	509.5
27.5°	485.5	491.4	500.9	502.2	495.6
30°	469.0	474.5	484.9	487.2	480.5
32.5°	452.2	457.8	469.2	471.1	464.6
35°	433.6	440.4	450.8	453.9	446.6
37.5°	414.6	421.2	433.1	435.9	428.0
40°	395.0	401.5	413.1	415.5	407.9
42.5°	374.9	381.4	393.9	394.2	387.9
45°	354.3	360.6	372.2	372.5	365.2
47.5°	333.5	339.9	350.2	349.0	342.1
50°	312.4	318.5	327.5	325.2	319.0
52.5°	290.6	296.5	305.0	301.2	295.4
55°	268.7	274.1	281.2	277.2	272.6
57.5°	246.5	252.0	257.5	253.4	249.4
60°	224.2	229.0	233.5	229.3	226.3
62.5°	201.5	205.7	209.6	205.6	202.7
65°	178.6	182.3	185.5	181.8	178.7
67.5°	155.8	158.9	161.9	158.0	154.9
70°	133.0	135.7	138.4	134.4	131.5
72.5°	110.5	112.9	115.3	111.4	108.9
75°	88.6	90.7	92.6	89.2	87.3
77.5°	67.7	69.5	70.8	68.7	66.8
80°	48.3	49.6	50.4	49.6	47.8
82.5°	31.1	32.0	32.4	32.4	31.2
85°	16.9	17.2	18.0	18.2	17.6
87.5°	6.5	7.0	7.1	7.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)