

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: P488892

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-27-120-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: P488892
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-LD4-2HI-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

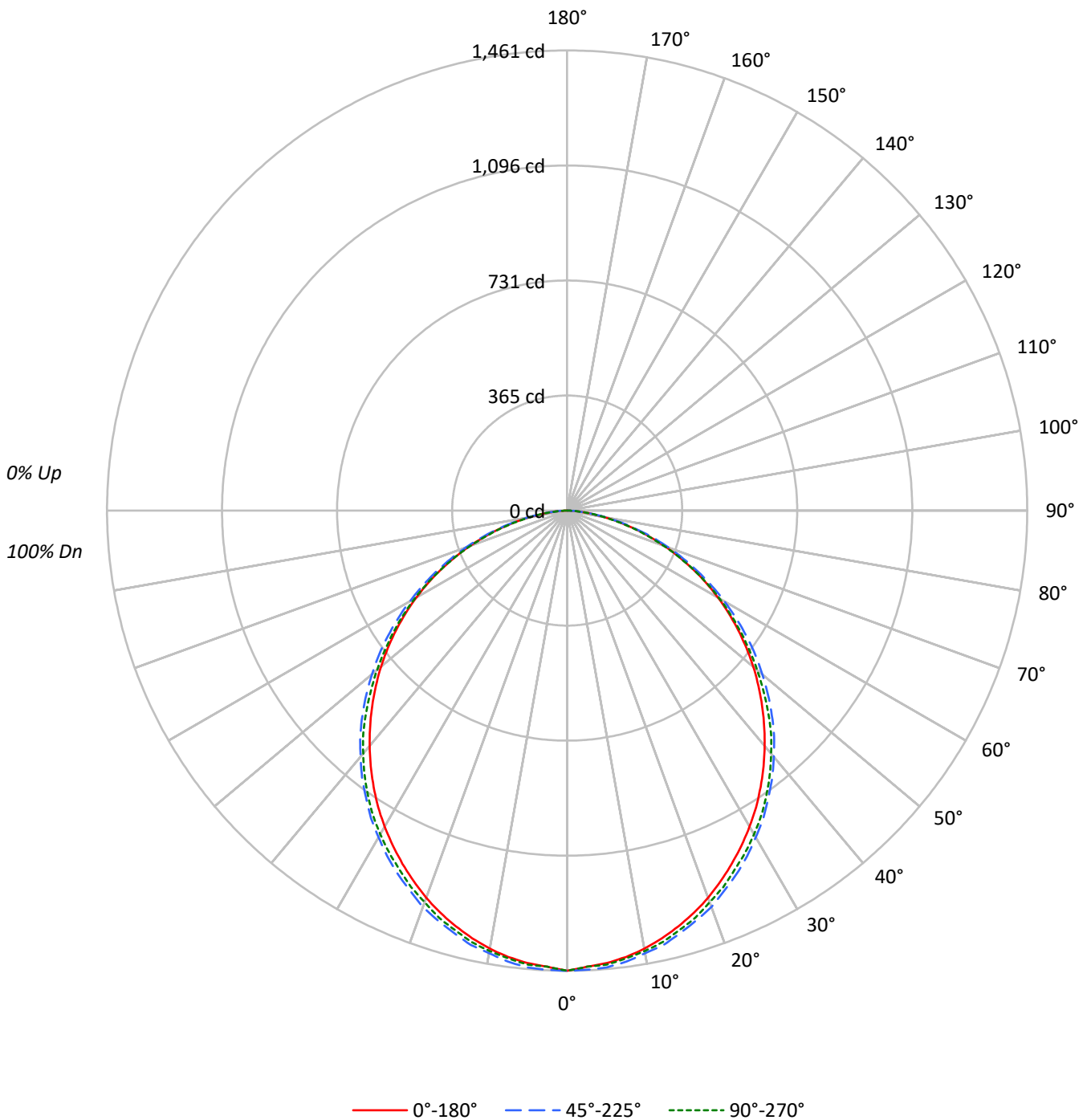
Lumens per Lamp: N/A
Luminaire Lumens: 3841.4 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2HI-27-120-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°	3932	3932	3932
5°	3895	3932	3908
10°	3860	3899	3880
15°	3806	3868	3841
20°	3747	3835	3789
25°	3673	3780	3737
30°	3599	3721	3687
35°	3518	3658	3624
40°	3427	3584	3539
45°	3331	3499	3433
50°	3231	3387	3298
55°	3113	3259	3159
60°	2981	3104	3009
65°	2809	2917	2811
70°	2585	2689	2556
75°	2276	2379	2242
80°	1850	1929	1829
85°	1288	1374	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.6
10°-20°	390.0	10.2
20°-30°	581.6	15.1
30°-40°	689.2	17.9
40°-50°	697.4	18.2
50°-60°	609.0	15.9
60°-70°	445.1	11.6
70°-80°	236.8	6.2
80°-90°	54.7	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°	1109.2	28.9
0°-40°	1798.4	46.8
0°-60°	3104.8	80.8
0°-90°	3841.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3841.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1442	1445	1456	1459	1447	137
15°	1366	1375	1388	1397	1379	385
25°	1237	1252	1273	1278	1258	570
35°	1071	1088	1113	1121	1103	670
45°	875	891	919	920	902	675
55°	664	677	695	685	673	593
65°	441	450	458	449	442	437
75°	219	224	229	220	216	233
85°	42	42	44	45	43	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.1	1461.1	1461.1	1461.1	1461.1
2.5°	1449.7	1454.4	1459.3	1461.4	1449.6
5°	1442.1	1444.8	1455.7	1459.0	1446.7
7.5°	1429.6	1433.7	1444.2	1445.8	1433.9
10°	1412.6	1419.9	1426.9	1434.5	1420.0
12.5°	1390.8	1400.7	1412.6	1413.9	1403.0
15°	1366.3	1375.4	1388.4	1396.7	1378.6
17.5°	1338.9	1347.7	1364.5	1366.0	1355.0
20°	1308.3	1319.3	1339.3	1342.8	1323.2
22.5°	1273.6	1288.3	1305.1	1308.4	1294.0
25°	1237.2	1252.4	1273.1	1277.8	1258.5
27.5°	1199.1	1213.8	1237.0	1240.4	1224.1
30°	1158.3	1172.0	1197.6	1203.2	1186.7
32.5°	1116.9	1130.6	1158.9	1163.7	1147.5
35°	1071.0	1087.7	1113.4	1121.2	1103.1
37.5°	1024.1	1040.4	1069.6	1076.6	1057.1
40°	975.5	991.6	1020.4	1026.2	1007.5
42.5°	925.9	942.0	972.8	973.7	958.2
45°	875.2	890.7	919.3	920.1	902.0
47.5°	823.7	839.4	865.0	862.1	845.0
50°	771.7	786.6	809.0	803.2	787.8
52.5°	717.8	732.2	753.4	744.0	729.5
55°	663.6	677.0	694.6	684.6	673.3
57.5°	608.9	622.5	636.0	625.8	616.1
60°	553.8	565.7	576.8	566.5	559.0
62.5°	497.8	508.0	517.6	507.7	500.7
65°	441.2	450.2	458.1	448.9	441.5
67.5°	384.8	392.5	399.8	390.3	382.6
70°	328.5	335.1	341.8	332.0	324.9
72.5°	273.0	278.7	284.7	275.2	269.0
75°	218.9	223.9	228.8	220.4	215.6
77.5°	167.3	171.6	174.9	169.6	164.9
80°	119.4	122.5	124.5	122.4	118.0
82.5°	76.7	79.0	80.1	79.9	77.0
85°	41.7	42.5	44.5	44.9	43.4
87.5°	16.1	17.2	17.7	19.0	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)