

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: P488943

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-30-120-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: P488943
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-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

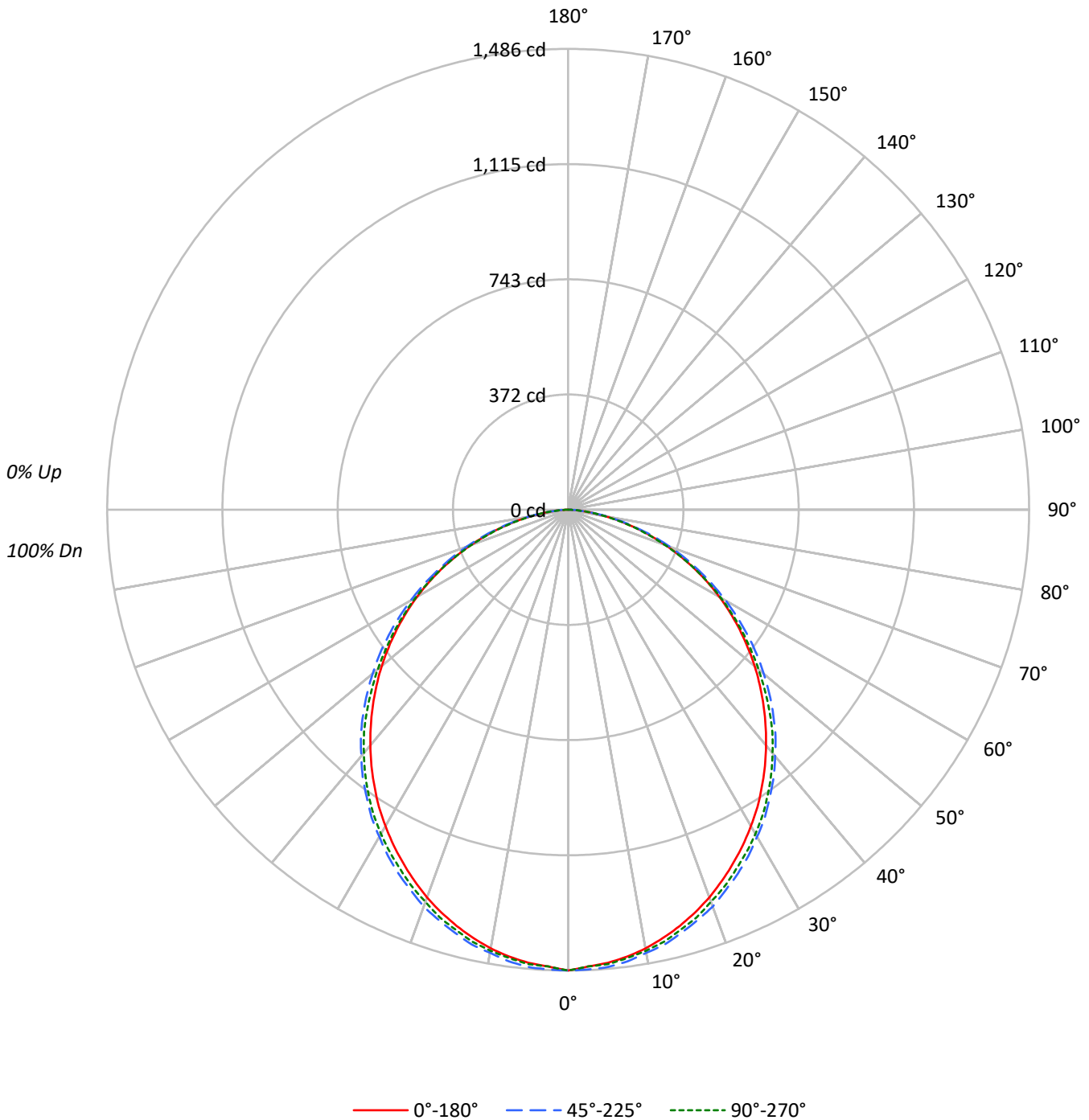
Lumens per Lamp: N/A
Luminaire Lumens: 3906.5 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	3999	3999	3999
5°	3961	3999	3974
10°	3925	3965	3946
15°	3871	3933	3906
20°	3810	3900	3853
25°	3736	3844	3800
30°	3660	3784	3750
35°	3578	3720	3685
40°	3485	3645	3599
45°	3387	3558	3491
50°	3285	3444	3354
55°	3166	3314	3212
60°	3031	3157	3060
65°	2856	2966	2859
70°	2629	2735	2600
75°	2314	2419	2279
80°	1881	1962	1860
85°	1309	1396	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	3.6
10°-20°	396.6	10.2
20°-30°	591.5	15.1
30°-40°	700.9	17.9
40°-50°	709.2	18.2
50°-60°	619.4	15.9
60°-70°	452.6	11.6
70°-80°	240.8	6.2
80°-90°	55.7	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°	1128.0	28.9
0°-40°	1828.8	46.8
0°-60°	3157.4	80.8
0°-90°	3906.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3906.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1466	1469	1480	1484	1471	139
15°	1389	1399	1412	1420	1402	392
25°	1258	1274	1295	1300	1280	580
35°	1089	1106	1132	1140	1122	681
45°	890	906	935	936	917	687
55°	675	688	706	696	685	603
65°	449	458	466	456	449	444
75°	223	228	233	224	219	237
85°	42	43	45	46	44	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.9	1485.9	1485.9	1485.9	1485.9
2.5°	1474.3	1479.1	1484.0	1486.2	1474.1
5°	1466.5	1469.3	1480.3	1483.7	1471.2
7.5°	1453.8	1458.0	1468.7	1470.3	1458.2
10°	1436.5	1443.9	1451.1	1458.8	1444.1
12.5°	1414.4	1424.4	1436.5	1437.9	1426.8
15°	1389.4	1398.7	1411.9	1420.4	1402.0
17.5°	1361.6	1370.6	1387.6	1389.1	1378.0
20°	1330.5	1341.6	1362.0	1365.6	1345.6
22.5°	1295.2	1310.2	1327.2	1330.6	1315.9
25°	1258.2	1273.6	1294.7	1299.5	1279.8
27.5°	1219.5	1234.3	1258.0	1261.4	1244.8
30°	1178.0	1191.9	1217.9	1223.6	1206.8
32.5°	1135.9	1149.8	1178.6	1183.4	1167.0
35°	1089.1	1106.1	1132.3	1140.2	1121.8
37.5°	1041.4	1058.0	1087.7	1094.8	1075.0
40°	992.0	1008.5	1037.7	1043.6	1024.6
42.5°	941.6	958.0	989.3	990.2	974.4
45°	890.0	905.8	934.9	935.7	917.3
47.5°	837.7	853.6	879.6	876.7	859.4
50°	784.7	799.9	822.7	816.8	801.2
52.5°	729.9	744.6	766.2	756.6	741.9
55°	674.8	688.5	706.4	696.2	684.7
57.5°	619.3	633.0	646.8	636.4	626.5
60°	563.2	575.3	586.6	576.1	568.5
62.5°	506.2	516.6	526.4	516.3	509.2
65°	448.6	457.8	465.8	456.5	449.0
67.5°	391.4	399.1	406.5	396.9	389.0
70°	334.1	340.7	347.6	337.6	330.4
72.5°	277.6	283.5	289.5	279.9	273.6
75°	222.6	227.7	232.7	224.2	219.2
77.5°	170.1	174.5	177.9	172.5	167.7
80°	121.4	124.6	126.6	124.5	120.0
82.5°	78.0	80.3	81.4	81.3	78.3
85°	42.4	43.2	45.2	45.7	44.1
87.5°	16.4	17.5	18.0	19.4	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)