

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: P489394

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-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: P489394
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-24-4-INS-A12125-LD4-1HI-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

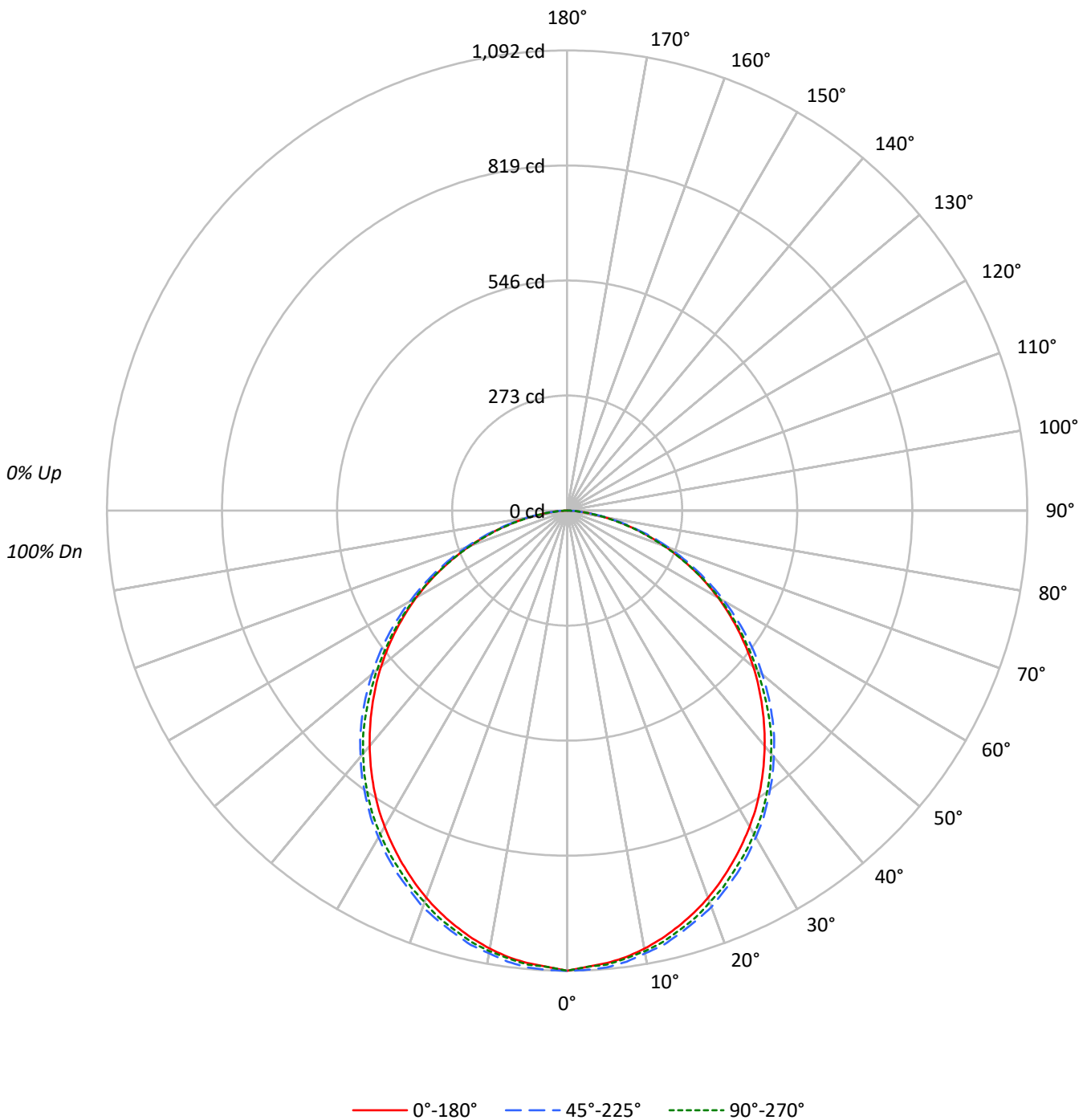
Lumens per Lamp: N/A
Luminaire Lumens: 2871.5 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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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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°	1470	1470	1470
5°	1456	1470	1461
10°	1443	1457	1450
15°	1423	1446	1435
20°	1400	1434	1416
25°	1373	1413	1397
30°	1345	1391	1378
35°	1315	1367	1354
40°	1281	1340	1323
45°	1245	1308	1283
50°	1207	1266	1233
55°	1164	1218	1181
60°	1114	1160	1125
65°	1050	1090	1051
70°	966	1005	955
75°	850	889	837
80°	691	721	683
85°	482	513	500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.6
10°-20°	291.5	10.2
20°-30°	434.8	15.1
30°-40°	515.2	17.9
40°-50°	521.3	18.2
50°-60°	455.3	15.9
60°-70°	332.7	11.6
70°-80°	177.0	6.2
80°-90°	40.9	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°	829.1	28.9
0°-40°	1344.3	46.8
0°-60°	2320.9	80.8
0°-90°	2871.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1078	1080	1088	1091	1081	102
15°	1021	1028	1038	1044	1030	288
25°	925	936	952	955	941	426
35°	801	813	832	838	825	501
45°	654	666	687	688	674	505
55°	496	506	519	512	503	443
65°	330	336	342	336	330	326
75°	164	167	171	165	161	174
85°	31	32	33	34	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.2	1092.2	1092.2	1092.2	1092.2
2.5°	1083.7	1087.2	1090.9	1092.4	1083.6
5°	1078.0	1080.0	1088.1	1090.6	1081.4
7.5°	1068.7	1071.7	1079.6	1080.7	1071.8
10°	1055.9	1061.4	1066.6	1072.3	1061.5
12.5°	1039.6	1047.0	1055.9	1056.9	1048.7
15°	1021.3	1028.1	1037.8	1044.1	1030.5
17.5°	1000.8	1007.4	1020.0	1021.1	1012.9
20°	978.0	986.2	1001.2	1003.8	989.1
22.5°	952.0	963.1	975.6	978.1	967.3
25°	924.8	936.2	951.7	955.2	940.8
27.5°	896.4	907.3	924.7	927.2	915.0
30°	865.9	876.1	895.2	899.4	887.0
32.5°	834.9	845.2	866.3	869.9	857.8
35°	800.6	813.1	832.3	838.1	824.6
37.5°	765.5	777.7	799.5	804.8	790.2
40°	729.2	741.3	762.8	767.1	753.1
42.5°	692.1	704.2	727.2	727.8	716.2
45°	654.2	665.8	687.2	687.8	674.2
47.5°	615.8	627.5	646.6	644.4	631.7
50°	576.8	588.0	604.7	600.4	588.9
52.5°	536.5	547.4	563.2	556.1	545.3
55°	496.0	506.1	519.3	511.7	503.3
57.5°	455.2	465.3	475.4	467.8	460.5
60°	414.0	422.9	431.2	423.4	417.9
62.5°	372.1	379.7	386.9	379.5	374.3
65°	329.8	336.5	342.4	335.6	330.0
67.5°	287.7	293.4	298.8	291.8	286.0
70°	245.6	250.5	255.5	248.2	242.8
72.5°	204.0	208.4	212.8	205.7	201.1
75°	163.6	167.4	171.0	164.8	161.1
77.5°	125.1	128.2	130.8	126.8	123.2
80°	89.2	91.6	93.1	91.5	88.2
82.5°	57.4	59.1	59.9	59.7	57.6
85°	31.2	31.7	33.2	33.6	32.4
87.5°	12.1	12.9	13.2	14.2	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)