

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: P488890

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2HI-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: P488890
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-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

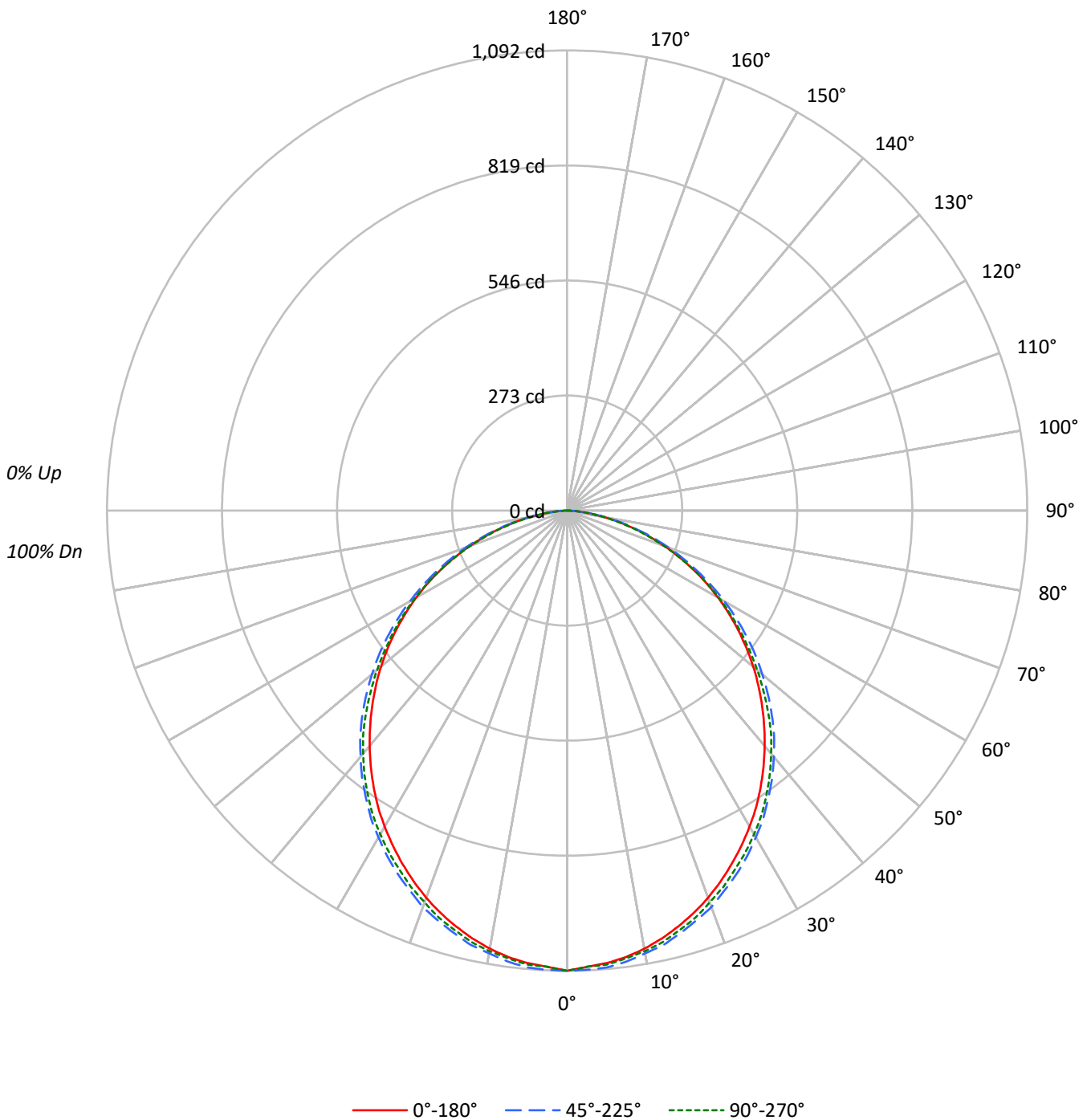
Lumens per Lamp: N/A
Luminaire Lumens: 2871.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2939	2939	2939
5°	2912	2939	2921
10°	2885	2914	2901
15°	2845	2891	2871
20°	2800	2867	2832
25°	2746	2825	2793
30°	2690	2782	2756
35°	2630	2734	2709
40°	2562	2679	2646
45°	2490	2615	2566
50°	2415	2532	2465
55°	2327	2436	2361
60°	2228	2321	2249
65°	2100	2180	2101
70°	1932	2010	1910
75°	1701	1778	1675
80°	1382	1443	1367
85°	963	1025	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.6
10°-20°	291.5	10.2
20°-30°	434.7	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°	2320.8	80.8
0°-90°	2871.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.4	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°	800	813	832	838	824	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°	1083.6	1087.2	1090.8	1092.4	1083.5
5°	1078.0	1080.0	1088.1	1090.6	1081.4
7.5°	1068.6	1071.7	1079.5	1080.7	1071.8
10°	1055.9	1061.3	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	1044.0	1030.5
17.5°	1000.8	1007.4	1019.9	1021.1	1012.9
20°	977.9	986.1	1001.1	1003.8	989.1
22.5°	952.0	963.0	975.5	978.0	967.2
25°	924.8	936.2	951.6	955.2	940.7
27.5°	896.3	907.3	924.7	927.2	915.0
30°	865.8	876.1	895.2	899.4	887.0
32.5°	834.9	845.1	866.3	869.8	857.8
35°	800.5	813.0	832.3	838.1	824.5
37.5°	765.5	777.7	799.5	804.7	790.2
40°	729.2	741.2	762.7	767.1	753.1
42.5°	692.1	704.1	727.1	727.8	716.2
45°	654.2	665.8	687.2	687.8	674.2
47.5°	615.7	627.5	646.6	644.4	631.7
50°	576.8	588.0	604.7	600.4	588.9
52.5°	536.5	547.3	563.2	556.1	545.3
55°	496.0	506.0	519.2	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	417.8
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	130.7	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)