

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: P489411

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-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: P489411
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-LD4-1LO-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

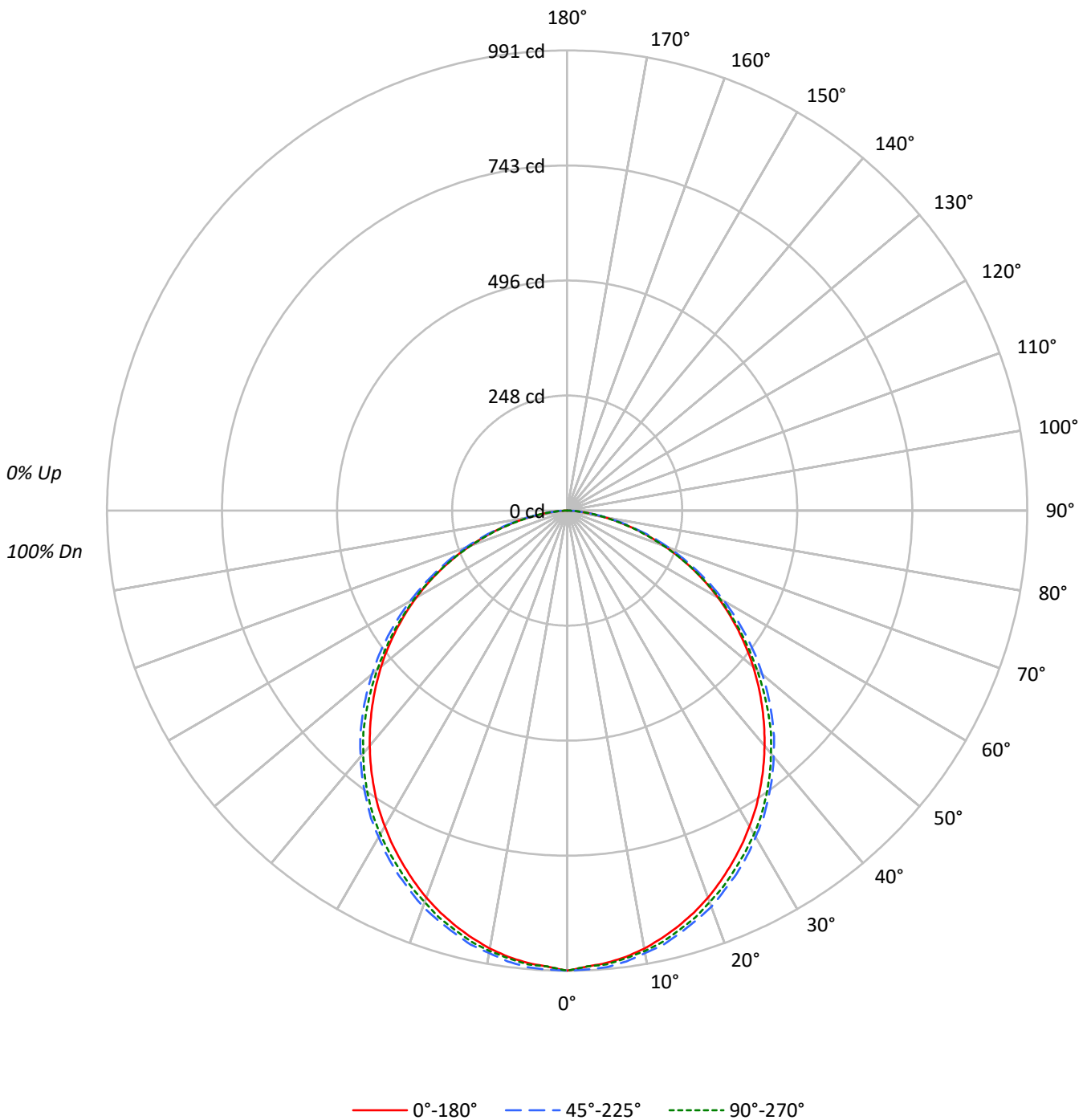
Lumens per Lamp: N/A
Luminaire Lumens: 2604.5 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	1333	1333	1333
5°	1321	1333	1325
10°	1308	1322	1315
15°	1290	1311	1302
20°	1270	1300	1285
25°	1245	1281	1267
30°	1220	1262	1250
35°	1193	1240	1228
40°	1162	1215	1200
45°	1129	1186	1164
50°	1095	1148	1118
55°	1055	1105	1071
60°	1010	1052	1020
65°	952	989	953
70°	876	911	867
75°	771	806	760
80°	627	654	620
85°	437	465	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.6
10°-20°	264.4	10.2
20°-30°	394.3	15.1
30°-40°	467.3	17.9
40°-50°	472.8	18.2
50°-60°	412.9	15.9
60°-70°	301.8	11.6
70°-80°	160.6	6.2
80°-90°	37.1	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°	752.0	28.9
0°-40°	1219.3	46.8
0°-60°	2105.1	80.8
0°-90°	2604.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	978	980	987	989	981	93
15°	926	932	941	947	935	261
25°	839	849	863	866	853	386
35°	726	738	755	760	748	454
45°	593	604	623	624	612	458
55°	450	459	471	464	456	402
65°	299	305	311	304	299	296
75°	148	152	155	150	146	158
85°	28	29	30	30	29	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.7	990.7	990.7	990.7	990.7
2.5°	982.9	986.1	989.4	990.9	982.8
5°	977.8	979.6	986.9	989.2	980.9
7.5°	969.3	972.1	979.2	980.2	972.2
10°	957.7	962.7	967.4	972.6	962.8
12.5°	943.0	949.7	957.7	958.7	951.2
15°	926.4	932.5	941.3	947.0	934.7
17.5°	907.8	913.8	925.1	926.1	918.7
20°	887.0	894.5	908.1	910.5	897.1
22.5°	863.5	873.5	884.9	887.1	877.3
25°	838.8	849.2	863.2	866.4	853.3
27.5°	813.0	822.9	838.7	841.0	830.0
30°	785.4	794.7	812.0	815.8	804.6
32.5°	757.3	766.6	785.8	789.0	778.0
35°	726.1	737.5	754.9	760.2	747.9
37.5°	694.3	705.4	725.2	729.9	716.7
40°	661.4	672.3	691.9	695.8	683.1
42.5°	627.8	638.7	659.5	660.2	649.6
45°	593.4	603.9	623.3	623.8	611.5
47.5°	558.5	569.1	586.5	584.5	572.9
50°	523.2	533.3	548.5	544.6	534.1
52.5°	486.7	496.5	510.8	504.4	494.6
55°	449.9	459.0	471.0	464.2	456.5
57.5°	412.9	422.0	431.2	424.3	417.7
60°	375.5	383.5	391.1	384.1	379.0
62.5°	337.5	344.4	350.9	344.2	339.5
65°	299.1	305.2	310.6	304.4	299.3
67.5°	260.9	266.1	271.0	264.6	259.4
70°	222.7	227.2	231.7	225.1	220.3
72.5°	185.1	189.0	193.0	186.6	182.4
75°	148.4	151.8	155.1	149.5	146.2
77.5°	113.4	116.3	118.6	115.0	111.8
80°	80.9	83.1	84.4	83.0	80.0
82.5°	52.0	53.6	54.3	54.2	52.2
85°	28.3	28.8	30.1	30.4	29.4
87.5°	10.9	11.7	12.0	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)