

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: P489506

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-30-120-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: P489506
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-LD4-4HI-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

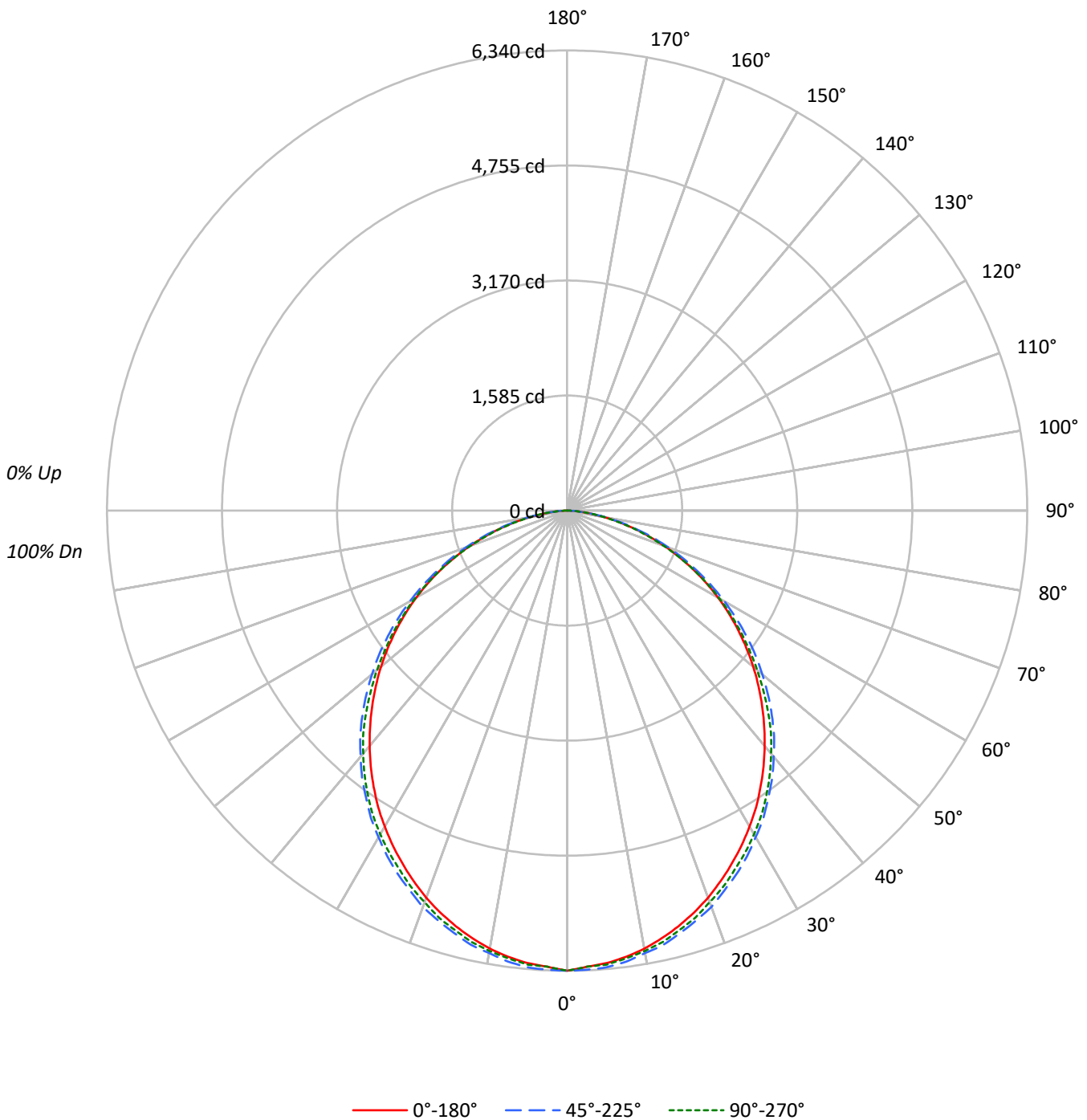
Lumens per Lamp: N/A
Luminaire Lumens: 16668.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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°	8530	8530	8530
5°	8452	8531	8478
10°	8374	8459	8418
15°	8258	8392	8333
20°	8128	8321	8221
25°	7970	8201	8107
30°	7809	8074	8000
35°	7633	7936	7862
40°	7435	7777	7678
45°	7226	7590	7447
50°	7009	7348	7155
55°	6754	7070	6853
60°	6467	6735	6527
65°	6095	6328	6099
70°	5608	5834	5545
75°	4938	5161	4862
80°	4013	4186	3966
85°	2794	2978	2907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.1	3.6
10°-20°	1692.1	10.2
20°-30°	2523.6	15.1
30°-40°	2990.5	17.9
40°-50°	3026.0	18.2
50°-60°	2642.7	15.9
60°-70°	1931.2	11.6
70°-80°	1027.6	6.2
80°-90°	237.5	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°	4812.8	28.9
0°-40°	7803.3	46.8
0°-60°	13472.0	80.8
0°-90°	16668.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16668.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6340	6340	6340	6340	6340	
5°	6258	6269	6316	6331	6277	593
15°	5928	5968	6024	6061	5982	1671
25°	5368	5434	5524	5545	5461	2473
35°	4647	4720	4831	4865	4786	2906
45°	3798	3865	3989	3992	3914	2930
55°	2879	2938	3014	2970	2922	2574
65°	1914	1953	1988	1948	1916	1894
75°	950	972	993	956	935	1010
85°	181	184	193	195	188	229
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6340.0	6340.0	6340.0	6340.0	6340.0
2.5°	6290.5	6311.0	6332.1	6341.3	6289.8
5°	6257.5	6269.3	6316.2	6330.8	6277.3
7.5°	6203.3	6221.1	6266.7	6273.3	6221.8
10°	6129.3	6161.0	6191.4	6224.4	6161.7
12.5°	6034.9	6077.8	6129.3	6135.3	6087.7
15°	5928.5	5968.1	6024.3	6060.6	5982.0
17.5°	5809.6	5847.9	5920.6	5927.2	5879.6
20°	5676.8	5724.4	5811.6	5826.8	5741.6
22.5°	5526.2	5590.3	5663.0	5677.5	5614.7
25°	5368.3	5434.4	5524.2	5544.7	5460.8
27.5°	5203.2	5266.6	5367.7	5382.2	5311.5
30°	5026.2	5085.6	5196.6	5221.0	5149.0
32.5°	4846.5	4906.0	5028.8	5049.3	4979.3
35°	4647.0	4719.7	4831.3	4865.0	4786.4
37.5°	4443.6	4514.2	4641.1	4671.5	4586.9
40°	4232.9	4302.9	4427.7	4452.8	4371.6
42.5°	4017.5	4087.5	4221.0	4224.9	4157.5
45°	3797.5	3864.9	3989.1	3992.4	3913.8
47.5°	3574.3	3642.3	3753.3	3740.7	3666.8
50°	3348.4	3413.1	3510.2	3485.1	3418.4
52.5°	3114.5	3177.3	3269.1	3228.1	3165.4
55°	2879.4	2937.5	3014.1	2970.5	2921.6
57.5°	2642.2	2701.0	2759.8	2715.6	2673.3
60°	2403.1	2454.6	2502.9	2457.9	2425.6
62.5°	2160.0	2204.3	2245.9	2203.0	2172.6
65°	1914.3	1953.3	1987.6	1948.0	1915.6
67.5°	1669.9	1702.9	1734.6	1693.7	1660.0
70°	1425.5	1453.9	1483.0	1440.7	1409.6
72.5°	1184.4	1209.5	1235.2	1194.3	1167.2
75°	949.9	971.7	992.8	956.5	935.3
77.5°	726.0	744.4	759.0	735.9	715.4
80°	517.9	531.7	540.3	531.1	511.9
82.5°	332.9	342.8	347.5	346.8	334.2
85°	181.0	184.3	192.9	194.9	188.3
87.5°	70.0	74.6	76.6	82.6	76.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)