

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: P489896

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-50-120-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: P489896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-4STD-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

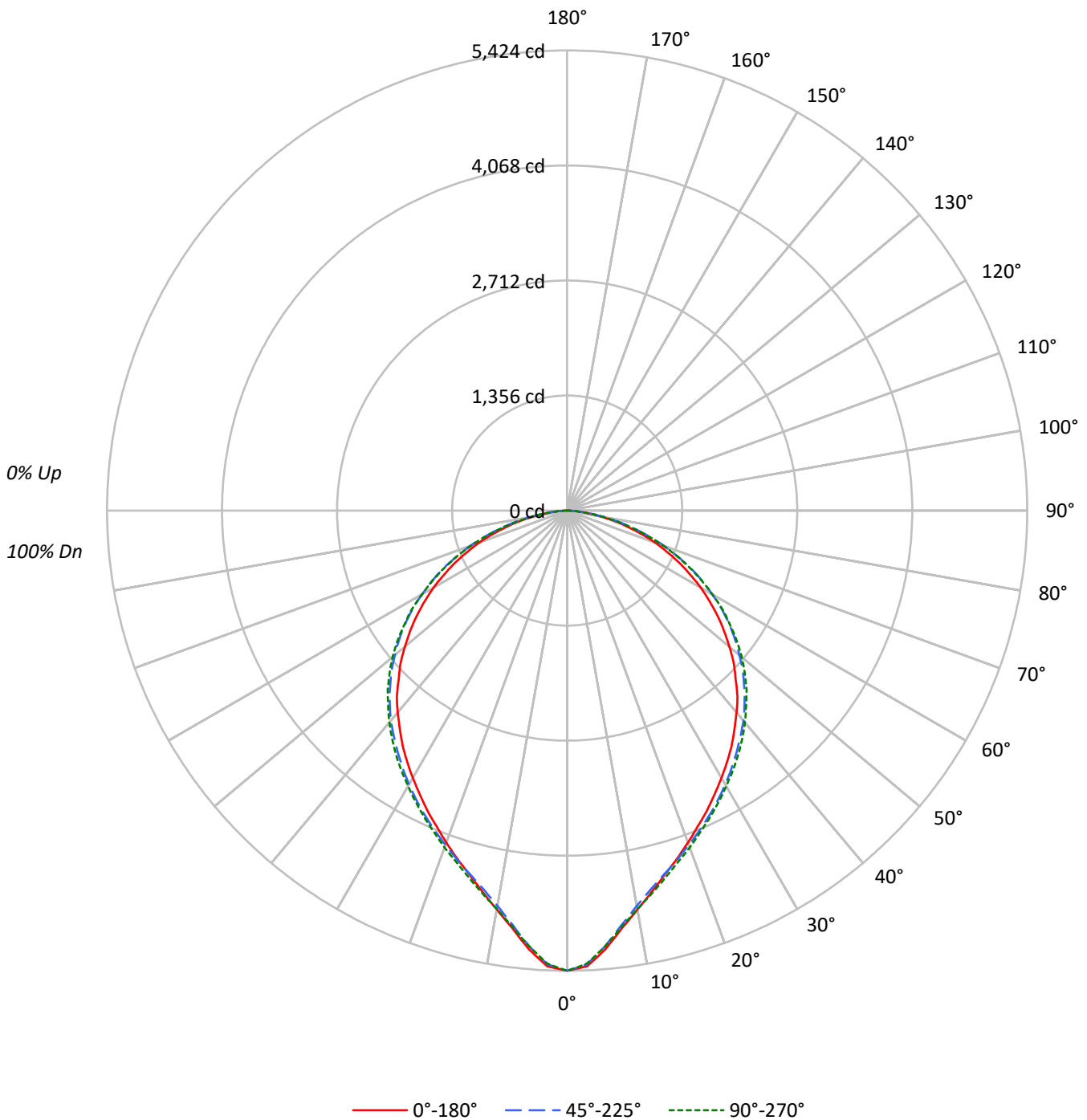
Lumens per Lamp: N/A
Luminaire Lumens: 12598.5 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7298	7298	7298
5°	7007	6958	6958
10°	6522	6462	6512
15°	6188	6177	6237
20°	5961	6004	6051
25°	5791	5885	5919
30°	5651	5790	5826
35°	5554	5717	5775
40°	5456	5677	5725
45°	5343	5622	5689
50°	5225	5552	5626
55°	5080	5471	5494
60°	4898	5321	5310
65°	4642	5117	5083
70°	4334	4772	4713
75°	3826	4227	4185
80°	3108	3445	3276
85°	2155	2197	2113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.3	3.8
10°-20°	1255.4	10.0
20°-30°	1825.5	14.5
30°-40°	2172.3	17.2
40°-50°	2255.7	17.9
50°-60°	2043.5	16.2
60°-70°	1542.0	12.2
70°-80°	840.2	6.7
80°-90°	184.6	1.5
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°	3560.2	28.3
0°-40°	5732.5	45.5
0°-60°	10031.7	79.6
0°-90°	12598.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12598.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5424	5424	5424	5424	5424	
5°	5188	5176	5151	5149	5151	481
15°	4443	4432	4434	4464	4478	1254
25°	3900	3933	3964	3997	3987	1797
35°	3381	3422	3480	3533	3516	2114
45°	2808	2858	2954	2987	2990	2171
55°	2166	2217	2332	2349	2342	1934
65°	1458	1500	1607	1605	1596	1442
75°	736	766	813	819	805	784
85°	140	141	142	141	137	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5423.9	5423.9	5423.9	5423.9	5423.9
2.5°	5376.4	5371.0	5353.4	5346.6	5345.2
5°	5188.0	5175.8	5151.4	5148.8	5151.4
7.5°	4963.0	4949.5	4925.1	4934.6	4946.8
10°	4773.3	4739.4	4729.9	4743.5	4766.5
12.5°	4603.8	4576.8	4568.6	4603.8	4620.2
15°	4442.6	4431.7	4434.5	4464.3	4477.8
17.5°	4303.0	4296.3	4313.9	4336.9	4343.7
20°	4163.4	4177.0	4193.3	4217.7	4225.7
22.5°	4026.6	4052.3	4079.4	4111.9	4101.1
25°	3900.5	3933.0	3964.2	3996.7	3987.3
27.5°	3766.3	3804.2	3847.7	3882.9	3869.3
30°	3637.5	3685.0	3727.0	3770.4	3750.1
32.5°	3510.2	3554.9	3605.0	3657.9	3634.9
35°	3381.4	3422.1	3480.4	3533.3	3515.6
37.5°	3239.2	3289.3	3355.6	3401.7	3389.6
40°	3106.3	3152.4	3232.4	3262.2	3259.4
42.5°	2972.1	3010.1	3094.1	3128.0	3122.6
45°	2808.2	2858.3	2954.5	2987.1	2989.7
47.5°	2663.1	2705.2	2808.2	2833.9	2839.3
50°	2496.4	2549.3	2652.3	2683.4	2687.6
52.5°	2332.4	2389.3	2495.1	2516.7	2520.9
55°	2165.7	2217.2	2332.4	2348.8	2342.0
57.5°	1990.9	2053.3	2159.0	2167.1	2173.9
60°	1820.1	1874.3	1977.3	1988.2	1973.3
62.5°	1634.5	1690.0	1795.8	1798.4	1786.2
65°	1458.2	1500.3	1607.3	1604.7	1596.5
67.5°	1273.9	1325.4	1404.1	1406.7	1400.1
70°	1101.8	1137.0	1213.0	1214.4	1198.1
72.5°	916.2	954.1	1015.1	1007.0	1003.0
75°	735.9	765.8	813.2	818.6	805.0
77.5°	570.6	592.3	627.5	623.5	608.5
80°	401.1	418.8	444.6	439.2	422.8
82.5°	256.1	267.0	283.3	276.5	269.7
85°	139.6	140.9	142.3	140.9	136.9
87.5°	51.5	52.9	52.9	51.5	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)