

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: P489546

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-40-120-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: P489546
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-LD4-5HI-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

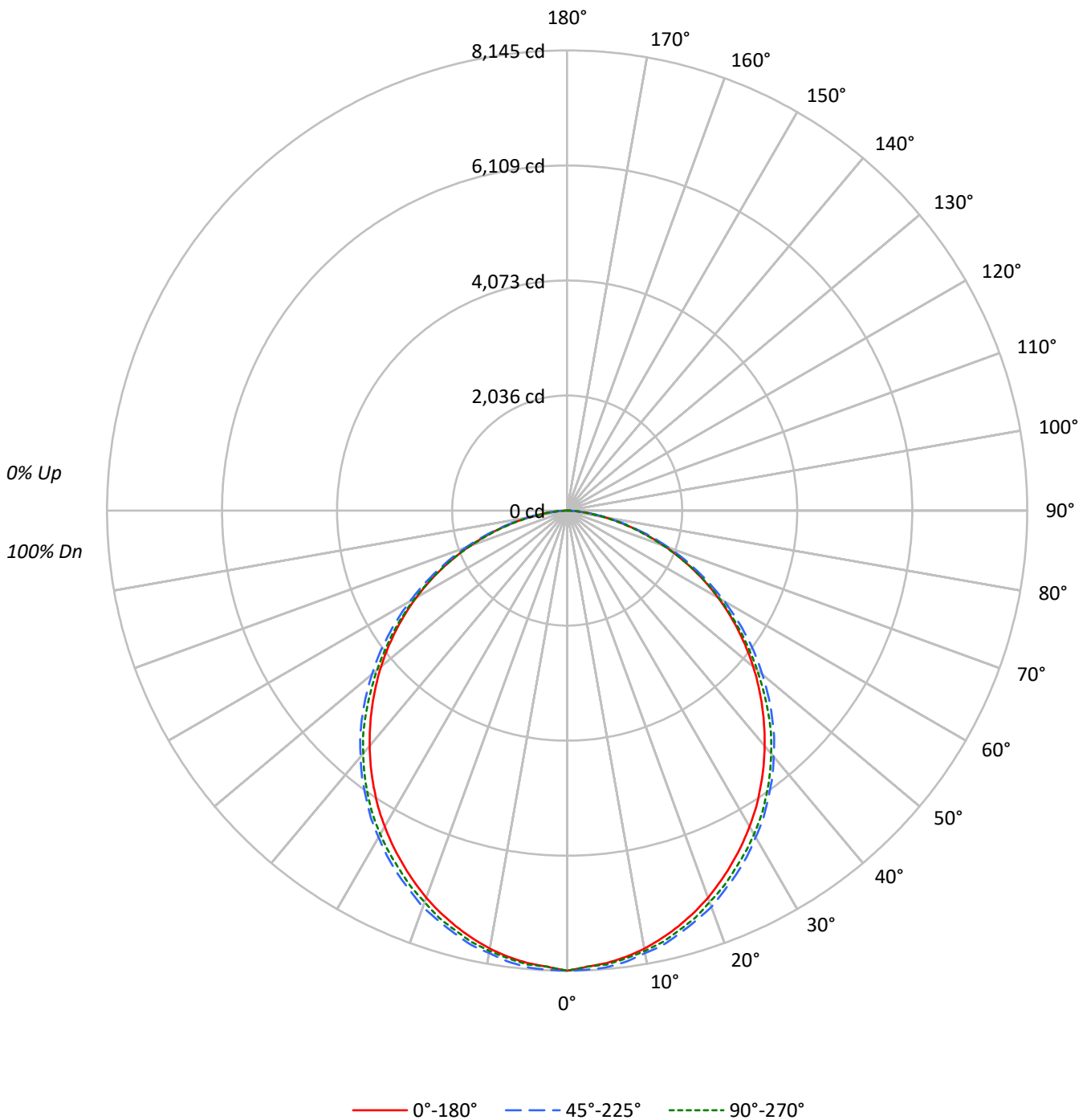
Lumens per Lamp: N/A
Luminaire Lumens: 21413.5 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 216
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°	10959	10959	10959
5°	10858	10960	10892
10°	10758	10867	10815
15°	10609	10780	10705
20°	10442	10690	10561
25°	10239	10536	10415
30°	10032	10372	10277
35°	9806	10195	10100
40°	9551	9991	9864
45°	9283	9751	9567
50°	9004	9439	9192
55°	8677	9083	8805
60°	8308	8653	8385
65°	7830	8130	7835
70°	7204	7495	7124
75°	6344	6631	6247
80°	5155	5379	5096
85°	3589	3825	3734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.1	3.6
10°-20°	2173.8	10.2
20°-30°	3242.1	15.1
30°-40°	3841.9	17.9
40°-50°	3887.4	18.2
50°-60°	3395.1	15.9
60°-70°	2481.0	11.6
70°-80°	1320.1	6.2
80°-90°	305.1	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°	6182.9	28.9
0°-40°	10024.8	46.8
0°-60°	17307.3	80.8
0°-90°	21413.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21413.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8145	8145	8145	8145	8145	
5°	8039	8054	8114	8133	8064	762
15°	7616	7667	7739	7786	7685	2147
25°	6897	6982	7097	7123	7015	3177
35°	5970	6063	6207	6250	6149	3733
45°	4879	4965	5125	5129	5028	3764
55°	3699	3774	3872	3816	3753	3307
65°	2459	2509	2554	2502	2461	2434
75°	1220	1248	1276	1229	1202	1297
85°	232	237	248	250	242	294
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8144.9	8144.9	8144.9	8144.9	8144.9
2.5°	8081.3	8107.6	8134.8	8146.6	8080.4
5°	8038.9	8054.1	8114.4	8133.1	8064.3
7.5°	7969.3	7992.2	8050.7	8059.2	7993.0
10°	7874.2	7915.0	7954.0	7996.4	7915.8
12.5°	7752.9	7808.0	7874.2	7881.9	7820.8
15°	7616.3	7667.2	7739.3	7786.0	7685.0
17.5°	7463.5	7512.7	7606.1	7614.6	7553.5
20°	7292.9	7354.0	7466.0	7485.6	7376.1
22.5°	7099.4	7181.8	7275.1	7293.8	7213.2
25°	6896.6	6981.5	7096.9	7123.2	7015.4
27.5°	6684.5	6765.9	6895.8	6914.5	6823.7
30°	6457.1	6533.4	6676.0	6707.4	6614.9
32.5°	6226.2	6302.6	6460.4	6486.8	6396.8
35°	5970.0	6063.3	6206.7	6250.0	6149.0
37.5°	5708.6	5799.4	5962.3	6001.4	5892.7
40°	5437.9	5527.8	5688.2	5720.5	5616.1
42.5°	5161.2	5251.2	5422.6	5427.7	5341.1
45°	4878.6	4965.2	5124.7	5129.0	5028.0
47.5°	4591.8	4679.2	4821.8	4805.7	4710.6
50°	4301.6	4384.8	4509.5	4477.3	4391.5
52.5°	4001.2	4081.8	4199.8	4147.1	4066.5
55°	3699.1	3773.8	3872.2	3816.2	3753.4
57.5°	3394.4	3470.0	3545.5	3488.6	3434.3
60°	3087.2	3153.4	3215.4	3157.7	3116.1
62.5°	2774.9	2831.8	2885.3	2830.1	2791.1
65°	2459.3	2509.3	2553.5	2502.5	2461.0
67.5°	2145.3	2187.7	2228.4	2175.8	2132.6
70°	1831.3	1867.8	1905.1	1850.8	1810.9
72.5°	1521.6	1553.8	1586.9	1534.3	1499.5
75°	1220.3	1248.3	1275.5	1228.8	1201.6
77.5°	932.6	956.4	975.0	945.3	919.0
80°	665.3	683.1	694.2	682.3	657.7
82.5°	427.7	440.4	446.4	445.5	429.4
85°	232.5	236.8	247.8	250.3	241.9
87.5°	90.0	95.9	98.4	106.1	97.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)