

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: P489872

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-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: P489872
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-LD4-4HI-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

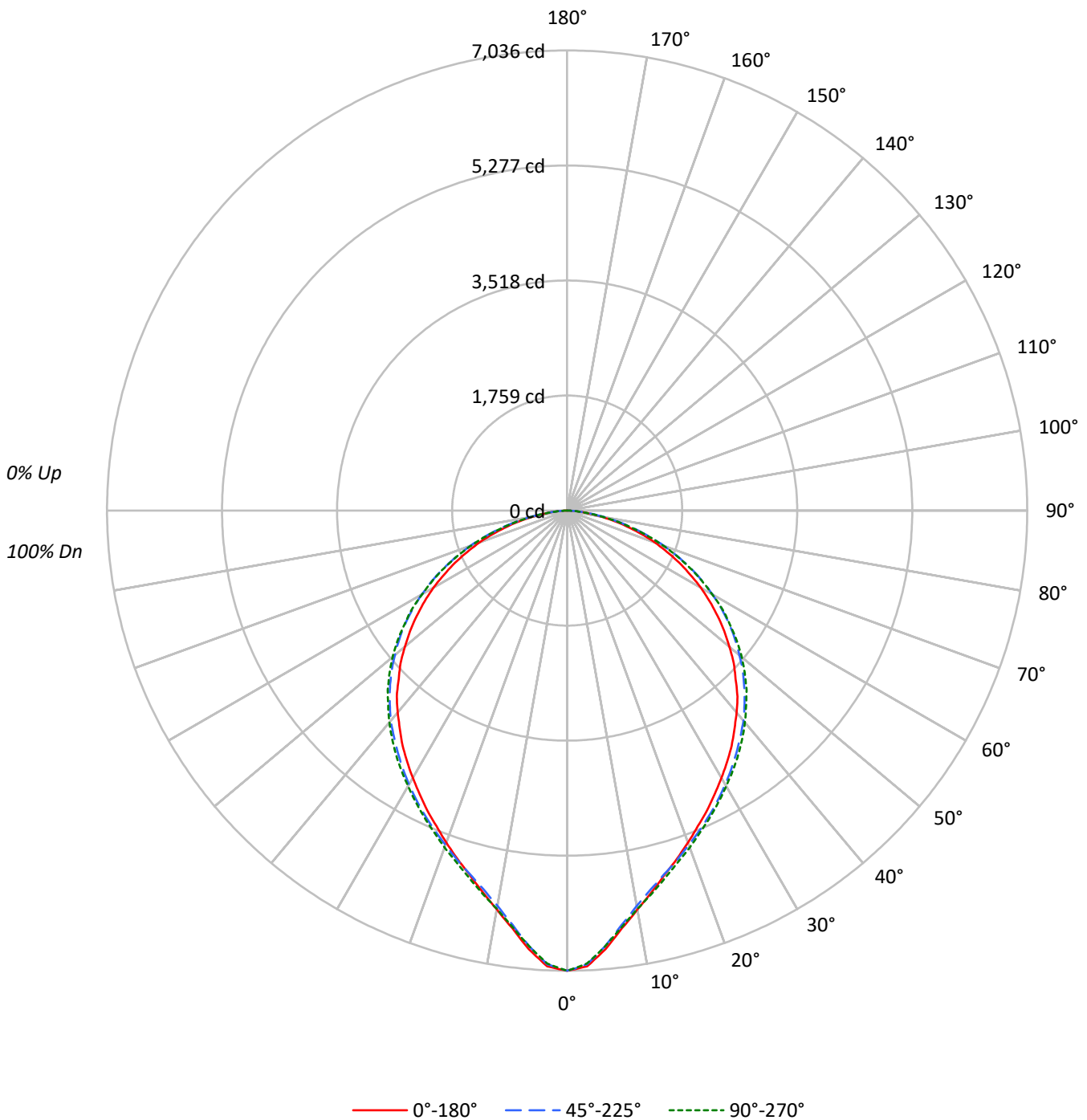
Lumens per Lamp: N/A
Luminaire Lumens: 16344.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	9467	9467	9467
5°	9090	9026	9026
10°	8460	8383	8448
15°	8028	8014	8092
20°	7734	7789	7849
25°	7512	7635	7679
30°	7331	7512	7558
35°	7205	7416	7491
40°	7078	7365	7427
45°	6932	7293	7380
50°	6779	7202	7298
55°	6590	7098	7127
60°	6354	6903	6889
65°	6023	6639	6594
70°	5623	6190	6115
75°	4963	5484	5429
80°	4032	4468	4250
85°	2796	2850	2740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.8	3.8
10°-20°	1628.6	10.0
20°-30°	2368.3	14.5
30°-40°	2818.2	17.2
40°-50°	2926.2	17.9
50°-60°	2651.0	16.2
60°-70°	2000.5	12.2
70°-80°	1090.0	6.7
80°-90°	239.5	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°	4618.6	28.3
0°-40°	7436.8	45.5
0°-60°	13014.1	79.6
0°-90°	16344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7036	7036	7036	7036	7036	
5°	6730	6715	6683	6680	6683	625
15°	5763	5749	5753	5792	5809	1627
25°	5060	5102	5143	5185	5173	2332
35°	4387	4440	4515	4584	4561	2743
45°	3643	3708	3833	3875	3879	2816
55°	2810	2876	3026	3047	3038	2509
65°	1892	1946	2085	2082	2071	1870
75°	955	993	1055	1062	1044	1017
85°	181	183	185	183	178	229
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7036.4	7036.4	7036.4	7036.4	7036.4
2.5°	6974.8	6967.8	6944.9	6936.1	6934.3
5°	6730.4	6714.6	6682.9	6679.5	6682.9
7.5°	6438.5	6420.9	6389.4	6401.6	6417.5
10°	6192.4	6148.5	6136.1	6153.7	6183.6
12.5°	5972.6	5937.4	5926.8	5972.6	5993.8
15°	5763.3	5749.3	5752.9	5791.6	5809.1
17.5°	5582.3	5573.5	5596.4	5626.3	5635.1
20°	5401.2	5418.8	5439.9	5471.6	5482.1
22.5°	5223.6	5257.0	5292.2	5334.4	5320.3
25°	5060.1	5102.3	5142.8	5184.9	5172.7
27.5°	4886.0	4935.2	4991.5	5037.3	5019.6
30°	4718.9	4780.5	4835.1	4891.3	4865.0
32.5°	4553.8	4611.8	4676.8	4745.4	4715.5
35°	4386.7	4439.5	4515.1	4583.7	4560.8
37.5°	4202.1	4267.2	4353.2	4413.0	4397.3
40°	4029.8	4089.6	4193.3	4232.0	4228.4
42.5°	3855.7	3905.0	4014.0	4057.9	4050.9
45°	3643.0	3708.1	3832.8	3875.1	3878.6
47.5°	3454.9	3509.4	3643.0	3676.4	3683.4
50°	3238.6	3307.2	3440.8	3481.2	3486.6
52.5°	3025.8	3099.6	3236.8	3264.9	3270.3
55°	2809.5	2876.4	3025.8	3047.0	3038.2
57.5°	2582.8	2663.7	2800.9	2811.3	2820.2
60°	2361.2	2431.6	2565.2	2579.2	2560.0
62.5°	2120.4	2192.5	2329.7	2333.1	2317.3
65°	1891.8	1946.3	2085.2	2081.7	2071.1
67.5°	1652.6	1719.4	1821.5	1825.0	1816.3
70°	1429.4	1475.1	1573.6	1575.4	1554.3
72.5°	1188.6	1237.8	1316.8	1306.4	1301.1
75°	954.7	993.4	1055.0	1062.0	1044.4
77.5°	740.2	768.3	814.1	808.8	789.4
80°	520.4	543.3	576.7	569.7	548.5
82.5°	332.2	346.4	367.5	358.7	349.9
85°	181.1	182.8	184.6	182.8	177.5
87.5°	66.8	68.6	68.6	66.8	61.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)