

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: P489868

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-35-120-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: P489868
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-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

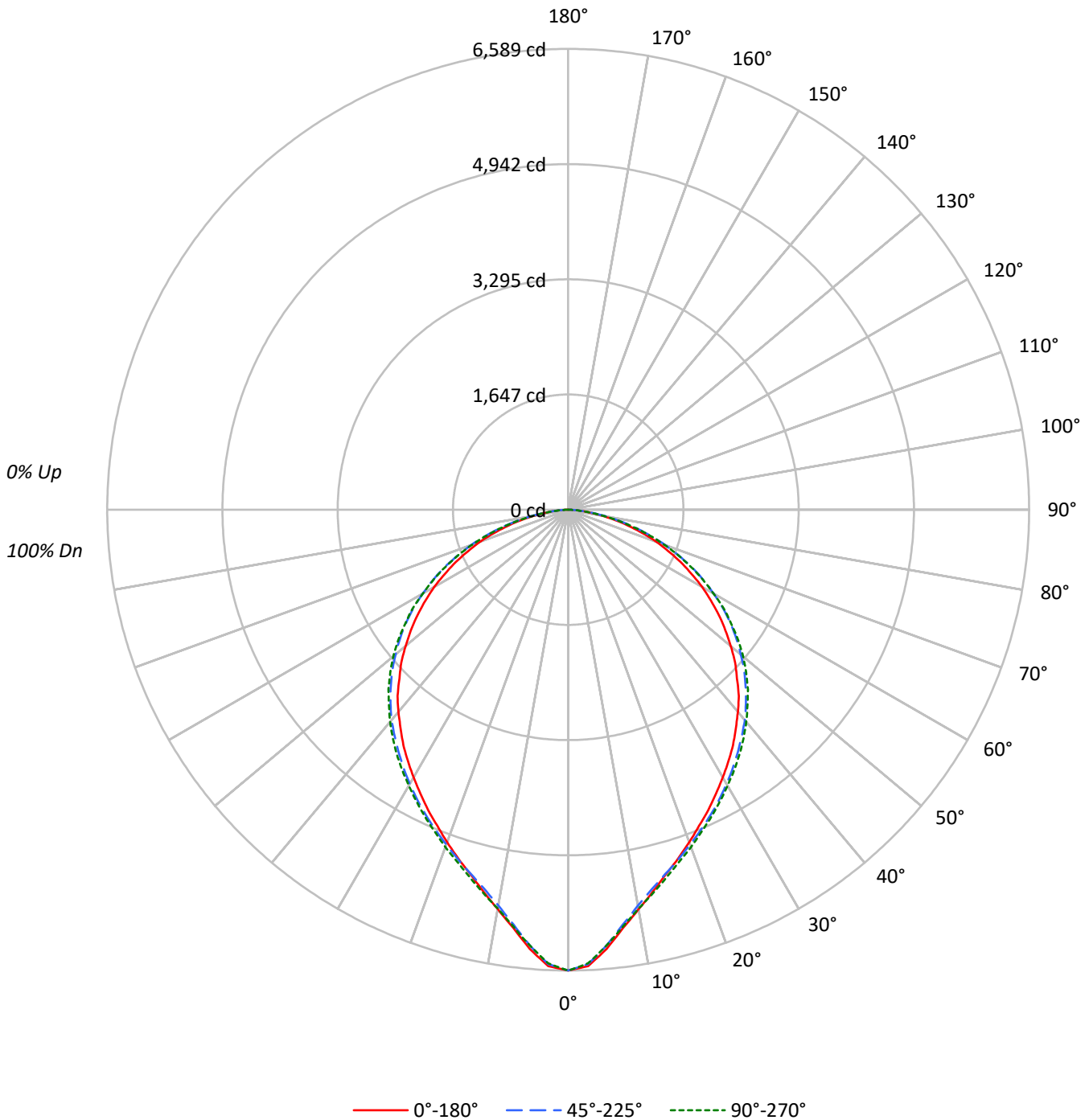
Lumens per Lamp: N/A
Luminaire Lumens: 15304.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8865	8865	8865
5°	8512	8452	8452
10°	7922	7850	7911
15°	7517	7504	7577
20°	7242	7294	7350
25°	7034	7149	7191
30°	6865	7034	7077
35°	6747	6944	7015
40°	6628	6897	6954
45°	6491	6829	6911
50°	6348	6744	6834
55°	6171	6646	6674
60°	5949	6464	6451
65°	5640	6216	6174
70°	5265	5797	5725
75°	4648	5136	5084
80°	3776	4184	3980
85°	2618	2668	2567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.2	3.8
10°-20°	1525.0	10.0
20°-30°	2217.6	14.5
30°-40°	2638.8	17.2
40°-50°	2740.1	17.9
50°-60°	2482.3	16.2
60°-70°	1873.2	12.2
70°-80°	1020.6	6.7
80°-90°	224.3	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°	4324.7	28.3
0°-40°	6963.6	45.5
0°-60°	12186.0	79.6
0°-90°	15304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6589	6589	6589	6589	6589	
5°	6302	6287	6258	6254	6258	585
15°	5397	5383	5387	5423	5439	1523
25°	4738	4778	4816	4855	4844	2183
35°	4108	4157	4228	4292	4271	2568
45°	3411	3472	3589	3629	3632	2637
55°	2631	2693	2833	2853	2845	2349
65°	1771	1822	1952	1949	1939	1751
75°	894	930	988	994	978	952
85°	170	171	173	171	166	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6588.6	6588.6	6588.6	6588.6	6588.6
2.5°	6531.0	6524.4	6503.0	6494.7	6493.0
5°	6302.2	6287.3	6257.7	6254.4	6257.7
7.5°	6028.8	6012.3	5982.8	5994.3	6009.1
10°	5798.4	5757.2	5745.6	5762.1	5790.1
12.5°	5592.5	5559.6	5549.7	5592.5	5612.4
15°	5396.6	5383.4	5386.8	5423.0	5439.4
17.5°	5227.1	5218.9	5240.3	5268.3	5276.5
20°	5057.5	5074.0	5093.8	5123.4	5133.2
22.5°	4891.3	4922.5	4955.5	4995.0	4981.8
25°	4738.2	4777.6	4815.5	4855.0	4843.5
27.5°	4575.1	4621.2	4673.9	4716.7	4700.2
30°	4418.7	4476.3	4527.4	4580.0	4555.4
32.5°	4264.0	4318.3	4379.2	4443.4	4415.5
35°	4107.6	4157.0	4227.8	4292.0	4270.6
37.5°	3934.8	3995.6	4076.2	4132.2	4117.5
40°	3773.4	3829.4	3926.5	3962.7	3959.4
42.5°	3610.4	3656.5	3758.6	3799.7	3793.1
45°	3411.2	3472.1	3589.0	3628.6	3631.8
47.5°	3235.0	3286.1	3411.2	3442.4	3449.0
50°	3032.5	3096.8	3221.9	3259.7	3264.7
52.5°	2833.3	2902.4	3030.9	3057.2	3062.2
55°	2630.8	2693.3	2833.3	2853.1	2844.9
57.5°	2418.5	2494.2	2622.7	2632.5	2640.7
60°	2210.9	2276.9	2402.0	2415.1	2397.1
62.5°	1985.5	2053.0	2181.4	2184.6	2169.8
65°	1771.4	1822.5	1952.5	1949.3	1939.3
67.5°	1547.5	1610.0	1705.6	1708.8	1700.7
70°	1338.4	1381.2	1473.5	1475.1	1455.4
72.5°	1113.0	1159.0	1233.0	1223.2	1218.3
75°	894.0	930.2	987.9	994.4	977.9
77.5°	693.1	719.4	762.3	757.4	739.2
80°	487.3	508.7	540.0	533.5	513.6
82.5°	311.1	324.4	344.1	335.9	327.6
85°	169.6	171.1	172.8	171.1	166.3
87.5°	62.6	64.2	64.2	62.6	57.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)