

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: P489902

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5HI-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: P489902
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-LD4-5HI-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

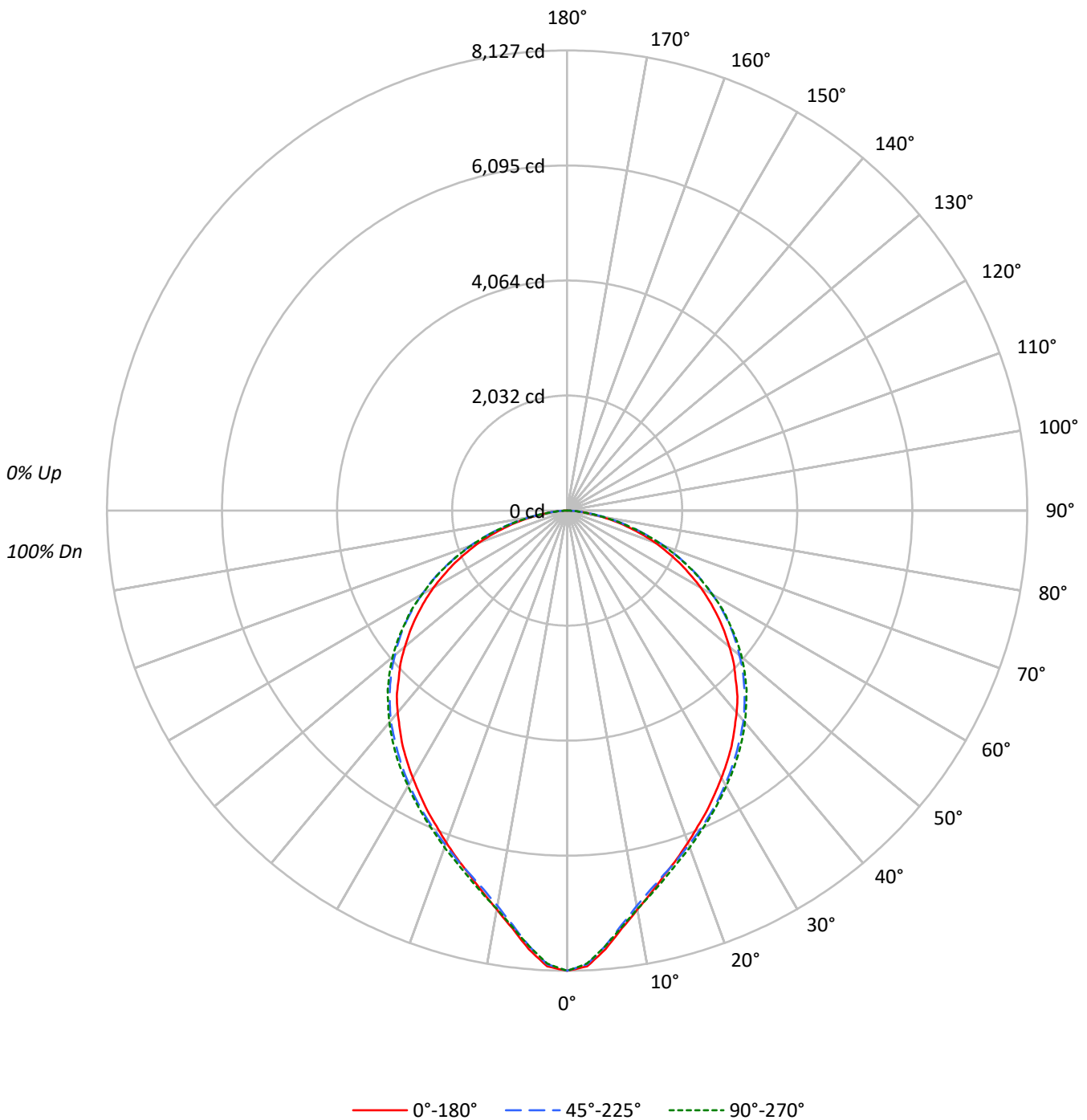
Lumens per Lamp: N/A
Luminaire Lumens: 18877.8 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10935	10935	10935
5°	10500	10425	10425
10°	9772	9683	9758
15°	9273	9256	9346
20°	8933	8997	9066
25°	8677	8819	8870
30°	8468	8677	8730
35°	8322	8566	8653
40°	8175	8507	8578
45°	8007	8424	8524
50°	7830	8319	8430
55°	7612	8198	8232
60°	7339	7973	7957
65°	6956	7668	7616
70°	6495	7150	7063
75°	5732	6334	6271
80°	4658	5161	4909
85°	3230	3291	3166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.1	3.8
10°-20°	1881.1	10.0
20°-30°	2735.4	14.5
30°-40°	3255.1	17.2
40°-50°	3379.9	17.9
50°-60°	3062.0	16.2
60°-70°	2310.6	12.2
70°-80°	1258.9	6.7
80°-90°	276.6	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°	5334.6	28.3
0°-40°	8589.7	45.5
0°-60°	15031.6	79.6
0°-90°	18877.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18877.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8127	8127	8127	8127	8127	
5°	7774	7756	7719	7715	7719	721
15°	6657	6641	6645	6689	6710	1879
25°	5845	5893	5940	5989	5975	2693
35°	5067	5128	5215	5294	5268	3168
45°	4208	4283	4427	4476	4480	3253
55°	3245	3322	3495	3519	3509	2897
65°	2185	2248	2408	2404	2392	2160
75°	1103	1147	1218	1227	1206	1175
85°	209	211	213	211	205	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8127.2	8127.2	8127.2	8127.2	8127.2
2.5°	8056.1	8048.0	8021.5	8011.4	8009.3
5°	7773.8	7755.5	7718.9	7715.0	7718.9
7.5°	7436.7	7416.3	7379.9	7394.1	7412.4
10°	7152.4	7101.6	7087.3	7107.7	7142.2
12.5°	6898.5	6857.9	6845.7	6898.5	6923.0
15°	6656.8	6640.6	6644.7	6689.4	6709.6
17.5°	6447.8	6437.6	6464.0	6498.5	6508.7
20°	6238.5	6258.9	6283.3	6319.8	6331.9
22.5°	6033.5	6072.0	6112.7	6161.4	6145.2
25°	5844.6	5893.3	5940.1	5988.8	5974.6
27.5°	5643.5	5700.3	5765.4	5818.2	5797.8
30°	5450.5	5521.6	5584.7	5649.6	5619.2
32.5°	5259.8	5326.8	5401.8	5481.1	5446.6
35°	5066.8	5127.7	5215.1	5294.3	5267.9
37.5°	4853.6	4928.7	5028.1	5097.2	5079.0
40°	4654.6	4723.6	4843.4	4888.1	4884.0
42.5°	4453.5	4510.4	4636.3	4687.0	4678.9
45°	4207.8	4282.9	4427.1	4475.9	4479.9
47.5°	3990.5	4053.5	4207.8	4246.3	4254.4
50°	3740.7	3819.9	3974.3	4020.9	4027.1
52.5°	3494.9	3580.2	3738.6	3771.1	3777.3
55°	3245.1	3322.3	3494.9	3519.4	3509.2
57.5°	2983.2	3076.6	3235.1	3247.2	3257.4
60°	2727.2	2808.6	2962.9	2979.1	2956.8
62.5°	2449.2	2532.4	2690.8	2694.8	2676.5
65°	2185.0	2248.0	2408.4	2404.4	2392.2
67.5°	1908.8	1986.0	2103.9	2107.9	2097.9
70°	1651.0	1703.8	1817.5	1819.6	1795.3
72.5°	1372.9	1429.7	1521.0	1508.9	1502.8
75°	1102.7	1147.4	1218.5	1226.6	1206.3
77.5°	855.0	887.4	940.3	934.2	911.8
80°	601.1	627.5	666.1	658.0	633.5
82.5°	383.7	400.1	424.5	414.3	404.1
85°	209.2	211.1	213.2	211.1	205.1
87.5°	77.2	79.2	79.2	77.2	71.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)