

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: P489891

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-30-120-EDD**

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: P489891
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-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

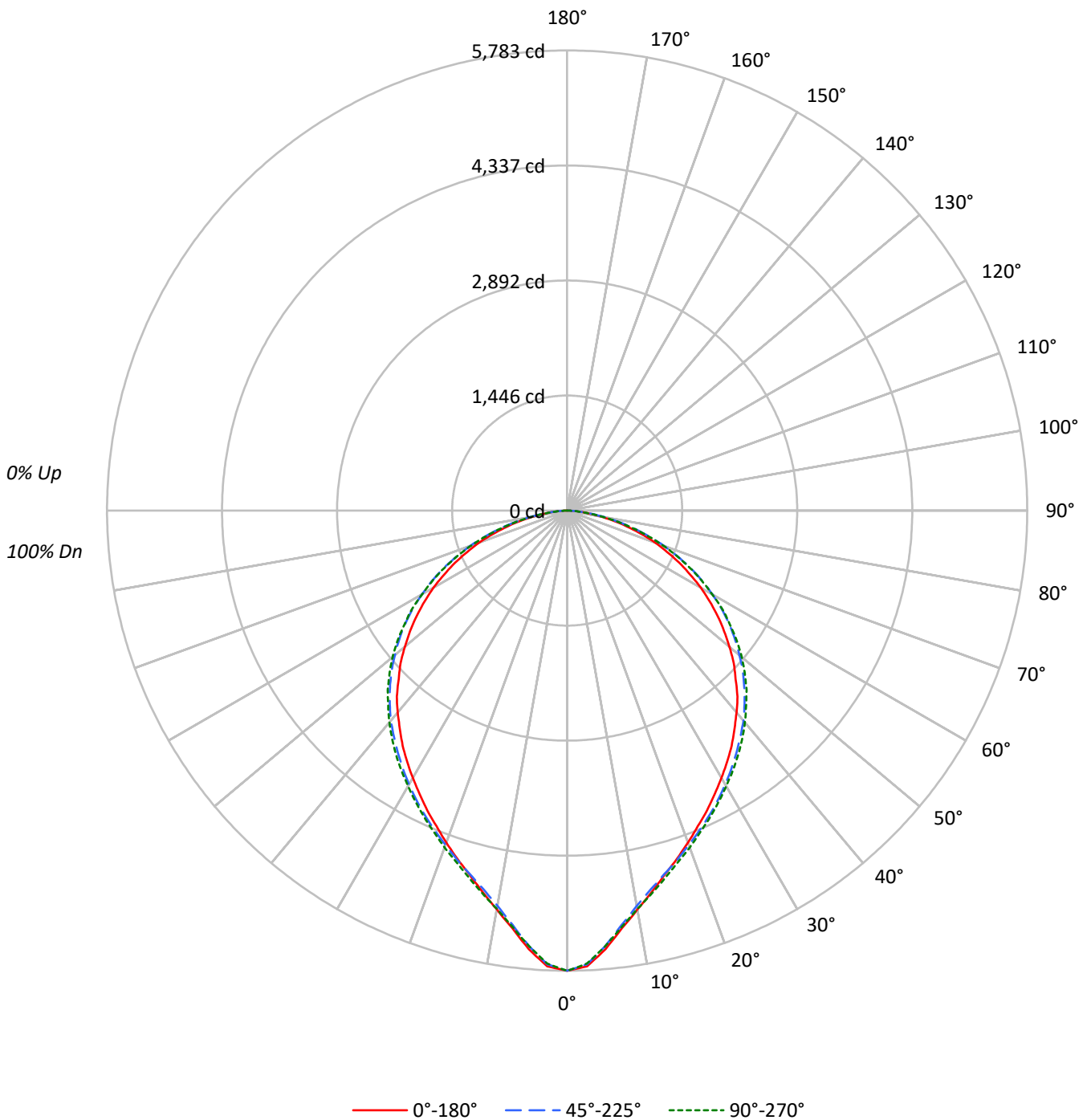
Lumens per Lamp: N/A
Luminaire Lumens: 13432.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7781	7781	7781
5°	7471	7418	7418
10°	6953	6890	6943
15°	6598	6586	6650
20°	6356	6401	6451
25°	6174	6275	6311
30°	6025	6174	6212
35°	5922	6095	6157
40°	5817	6053	6104
45°	5697	5994	6066
50°	5571	5919	5998
55°	5417	5834	5857
60°	5222	5673	5662
65°	4950	5456	5419
70°	4621	5088	5025
75°	4079	4507	4462
80°	3314	3673	3493
85°	2299	2342	2252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.0	3.8
10°-20°	1338.5	10.0
20°-30°	1946.4	14.5
30°-40°	2316.2	17.2
40°-50°	2405.0	17.9
50°-60°	2178.8	16.2
60°-70°	1644.1	12.2
70°-80°	895.8	6.7
80°-90°	196.8	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°	3795.9	28.3
0°-40°	6112.0	45.5
0°-60°	10695.8	79.6
0°-90°	13432.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13432.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5783	5783	5783	5783	5783	
5°	5532	5518	5492	5490	5492	513
15°	4737	4725	4728	4760	4774	1337
25°	4159	4193	4227	4261	4251	1916
35°	3605	3649	3711	3767	3748	2254
45°	2994	3048	3150	3185	3188	2314
55°	2309	2364	2487	2504	2497	2062
65°	1555	1600	1714	1711	1702	1537
75°	785	816	867	873	858	836
85°	149	150	152	150	146	188
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5782.9	5782.9	5782.9	5782.9	5782.9
2.5°	5732.3	5726.5	5707.7	5700.5	5699.0
5°	5531.5	5518.5	5492.4	5489.6	5492.4
7.5°	5291.6	5277.1	5251.2	5261.3	5274.3
10°	5089.3	5053.2	5043.0	5057.5	5082.0
12.5°	4908.6	4879.7	4871.0	4908.6	4926.1
15°	4736.6	4725.1	4728.1	4759.9	4774.2
17.5°	4587.9	4580.7	4599.4	4624.0	4631.3
20°	4439.0	4453.5	4470.8	4496.9	4505.5
22.5°	4293.1	4320.5	4349.5	4384.1	4372.6
25°	4158.7	4193.4	4226.7	4261.3	4251.2
27.5°	4015.6	4056.1	4102.4	4139.9	4125.5
30°	3878.3	3928.9	3973.8	4019.9	3998.3
32.5°	3742.6	3790.3	3843.7	3900.1	3875.5
35°	3605.3	3648.6	3710.8	3767.2	3748.4
37.5°	3453.6	3507.0	3577.8	3626.9	3614.0
40°	3312.0	3361.1	3446.3	3478.1	3475.2
42.5°	3168.9	3209.4	3298.9	3335.0	3329.3
45°	2994.1	3047.5	3150.1	3184.8	3187.7
47.5°	2839.4	2884.3	2994.1	3021.5	3027.2
50°	2661.7	2718.1	2827.9	2861.1	2865.5
52.5°	2486.8	2547.5	2660.2	2683.3	2687.7
55°	2309.1	2364.0	2486.8	2504.2	2497.0
57.5°	2122.7	2189.2	2301.9	2310.5	2317.8
60°	1940.6	1998.4	2108.2	2119.8	2103.9
62.5°	1742.7	1801.9	1914.7	1917.5	1904.5
65°	1554.8	1599.6	1713.7	1710.9	1702.2
67.5°	1358.2	1413.1	1497.0	1499.9	1492.7
70°	1174.7	1212.3	1293.3	1294.7	1277.4
72.5°	976.9	1017.3	1082.2	1073.6	1069.3
75°	784.6	816.4	867.0	872.8	858.3
77.5°	608.4	631.5	669.0	664.7	648.8
80°	427.7	446.5	474.0	468.2	450.8
82.5°	273.0	284.7	302.0	294.8	287.5
85°	148.9	150.2	151.7	150.2	145.9
87.5°	54.9	56.4	56.4	54.9	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)