

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: P489864

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-27-120-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: P489864
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-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

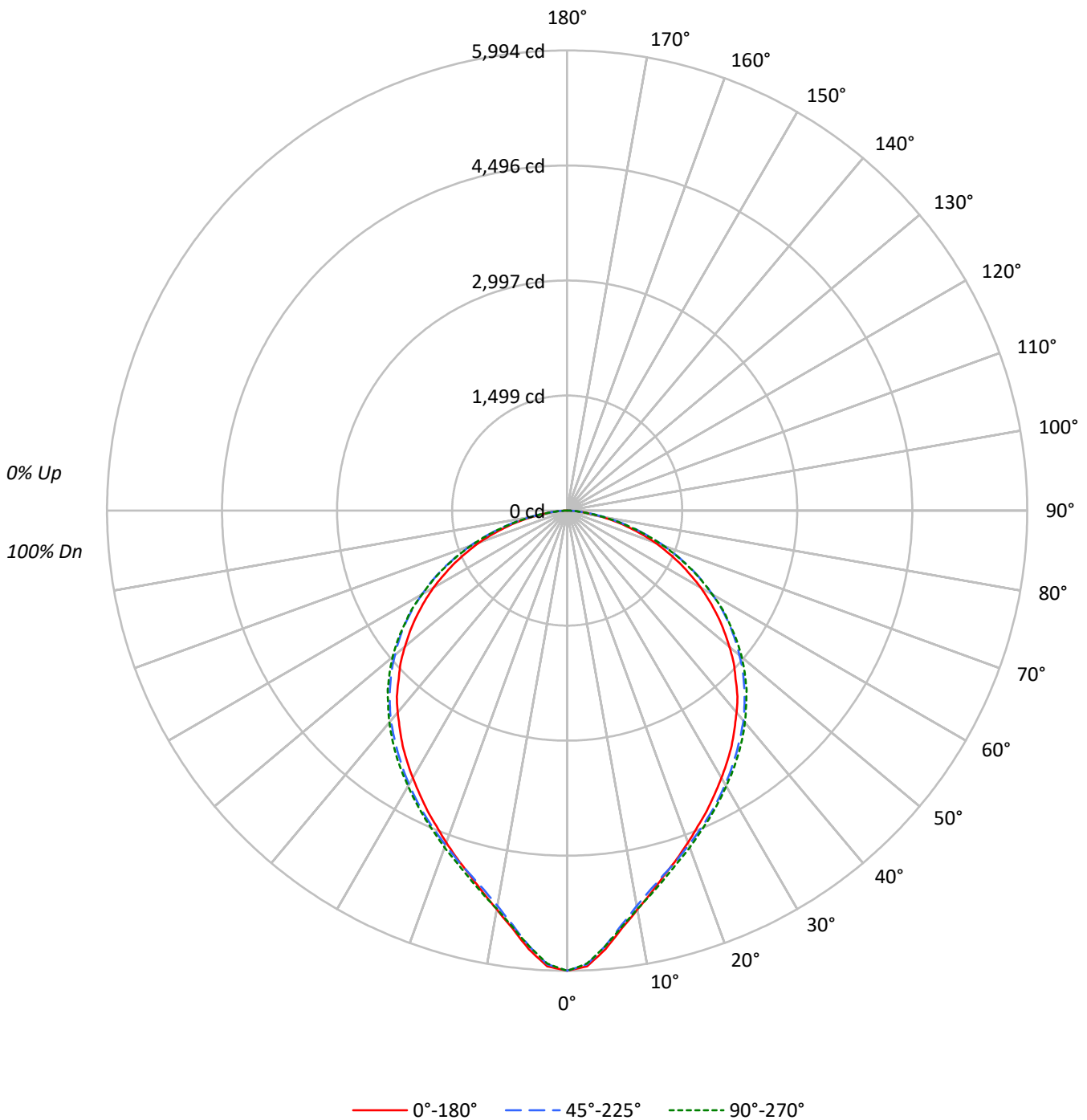
Lumens per Lamp: N/A
Luminaire Lumens: 13922.6 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	8065	8065	8065
5°	7744	7689	7689
10°	7207	7141	7197
15°	6839	6826	6893
20°	6588	6635	6687
25°	6399	6504	6542
30°	6245	6399	6439
35°	6138	6318	6381
40°	6029	6274	6327
45°	5905	6213	6287
50°	5775	6135	6217
55°	5614	6046	6071
60°	5413	5880	5868
65°	5131	5655	5617
70°	4790	5273	5209
75°	4228	4672	4625
80°	3435	3807	3620
85°	2382	2427	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	3.8
10°-20°	1387.3	10.0
20°-30°	2017.4	14.5
30°-40°	2400.7	17.2
40°-50°	2492.7	17.9
50°-60°	2258.3	16.2
60°-70°	1704.1	12.2
70°-80°	928.5	6.7
80°-90°	204.0	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°	3934.4	28.3
0°-40°	6335.0	45.5
0°-60°	11086.0	79.6
0°-90°	13922.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13922.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5994	5994	5994	5994	5994	
5°	5733	5720	5693	5690	5693	532
15°	4910	4898	4901	4934	4948	1386
25°	4310	4346	4381	4417	4406	1986
35°	3737	3782	3846	3905	3885	2336
45°	3103	3159	3265	3301	3304	2399
55°	2393	2450	2578	2596	2588	2137
65°	1612	1658	1776	1773	1764	1593
75°	813	846	899	905	890	866
85°	154	156	157	156	151	195
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5993.9	5993.9	5993.9	5993.9	5993.9
2.5°	5941.4	5935.5	5916.0	5908.5	5906.9
5°	5733.3	5719.8	5692.8	5689.9	5692.8
7.5°	5484.7	5469.6	5442.8	5453.2	5466.7
10°	5275.0	5237.5	5227.0	5242.0	5267.5
12.5°	5087.7	5057.8	5048.7	5087.7	5105.8
15°	4909.5	4897.5	4900.6	4933.5	4948.4
17.5°	4755.3	4747.8	4767.3	4792.7	4800.2
20°	4601.0	4616.0	4634.0	4661.0	4669.9
22.5°	4449.8	4478.1	4508.2	4544.1	4532.1
25°	4310.5	4346.4	4380.9	4416.8	4406.3
27.5°	4162.2	4204.0	4252.0	4291.0	4276.0
30°	4019.8	4072.3	4118.7	4166.6	4144.2
32.5°	3879.1	3928.5	3983.9	4042.4	4016.9
35°	3736.8	3781.8	3846.2	3904.6	3885.1
37.5°	3579.6	3635.0	3708.3	3759.2	3745.9
40°	3432.8	3483.7	3572.1	3605.0	3602.0
42.5°	3284.5	3326.5	3419.3	3456.7	3450.7
45°	3103.3	3158.7	3265.0	3301.0	3304.0
47.5°	2943.0	2989.5	3103.3	3131.7	3137.7
50°	2758.8	2817.3	2931.1	2965.4	2970.0
52.5°	2577.5	2640.4	2757.3	2781.2	2785.8
55°	2393.3	2450.2	2577.5	2595.6	2588.1
57.5°	2200.2	2269.1	2385.9	2394.8	2402.3
60°	2011.4	2071.3	2185.2	2197.1	2180.7
62.5°	1806.3	1867.6	1984.5	1987.4	1973.9
65°	1611.5	1658.0	1776.2	1773.3	1764.3
67.5°	1407.8	1464.7	1551.7	1554.6	1547.2
70°	1217.6	1256.6	1340.5	1342.0	1324.0
72.5°	1012.5	1054.4	1121.7	1112.8	1108.4
75°	813.3	846.2	898.7	904.7	889.6
77.5°	630.6	654.5	693.5	689.0	672.5
80°	443.3	462.8	491.3	485.3	467.2
82.5°	283.0	295.1	313.1	305.5	298.0
85°	154.3	155.7	157.2	155.7	151.2
87.5°	56.9	58.4	58.4	56.9	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)