

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: P489920

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-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: P489920
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-LD4-5LO-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

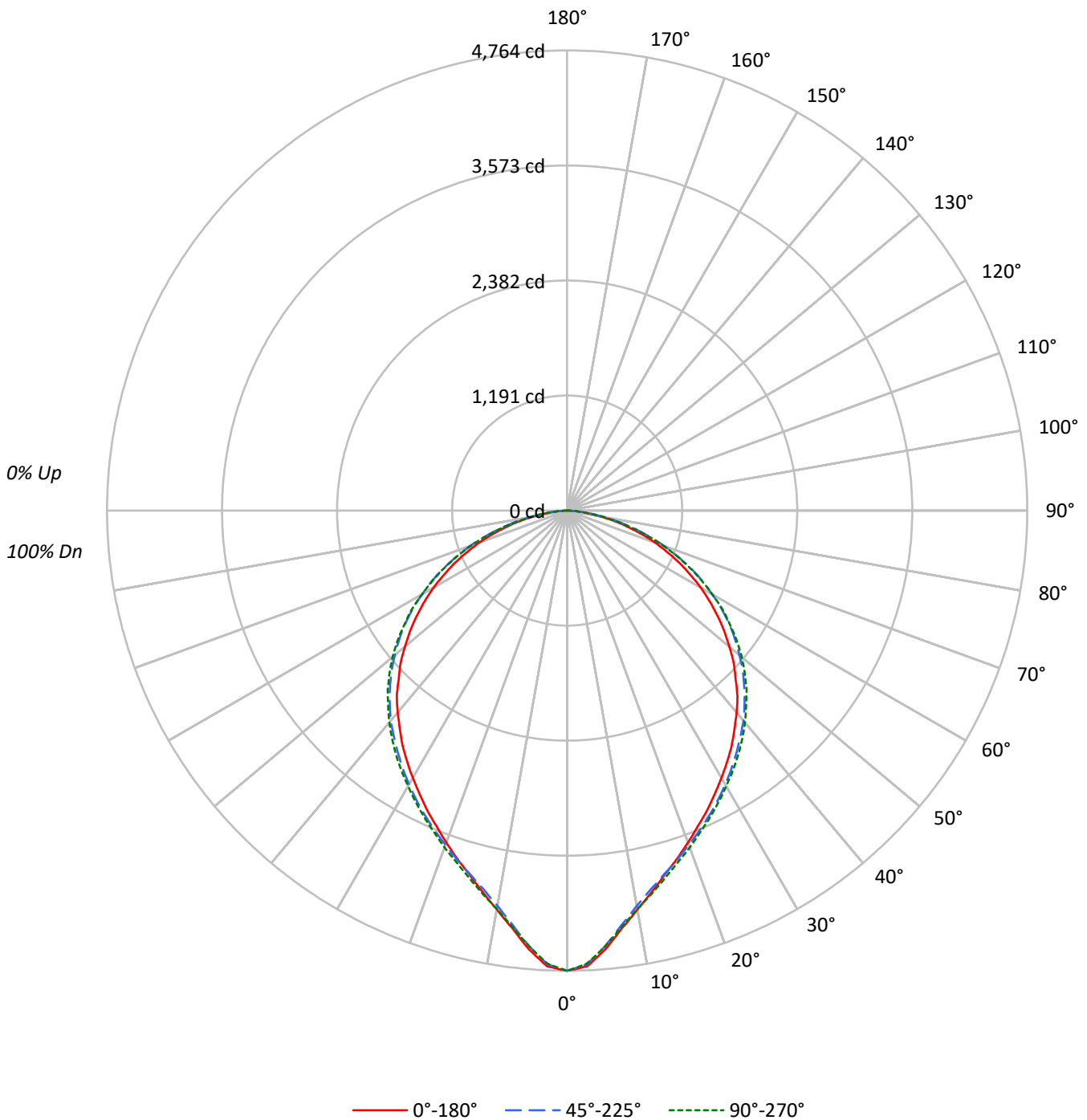
Lumens per Lamp: N/A
Luminaire Lumens: 11066.2 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	6410	6410	6410
5°	6155	6111	6111
10°	5728	5676	5720
15°	5436	5426	5479
20°	5236	5274	5315
25°	5086	5169	5199
30°	4964	5086	5118
35°	4879	5021	5072
40°	4792	4987	5029
45°	4693	4938	4997
50°	4590	4877	4941
55°	4462	4806	4826
60°	4302	4674	4664
65°	4078	4495	4465
70°	3807	4191	4140
75°	3360	3713	3676
80°	2730	3026	2878
85°	1893	1930	1856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	3.8
10°-20°	1102.7	10.0
20°-30°	1603.5	14.5
30°-40°	1908.1	17.2
40°-50°	1981.3	17.9
50°-60°	1795.0	16.2
60°-70°	1354.5	12.2
70°-80°	738.0	6.7
80°-90°	162.2	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°	3127.2	28.3
0°-40°	5035.3	45.5
0°-60°	8811.6	79.6
0°-90°	11066.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11066.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4764	4764	4764	4764	4764	
5°	4557	4546	4525	4522	4525	423
15°	3902	3893	3895	3921	3933	1101
25°	3426	3455	3482	3511	3502	1579
35°	2970	3006	3057	3104	3088	1857
45°	2467	2511	2595	2624	2626	1907
55°	1902	1948	2049	2063	2057	1698
65°	1281	1318	1412	1410	1402	1266
75°	646	673	714	719	707	689
85°	123	124	125	124	120	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4764.2	4764.2	4764.2	4764.2	4764.2
2.5°	4722.5	4717.7	4702.2	4696.3	4695.1
5°	4557.0	4546.3	4524.9	4522.5	4524.9
7.5°	4359.4	4347.5	4326.1	4334.4	4345.1
10°	4192.7	4163.0	4154.6	4166.5	4186.8
12.5°	4043.9	4020.1	4012.9	4043.9	4058.3
15°	3902.2	3892.7	3895.1	3921.4	3933.2
17.5°	3779.7	3773.7	3789.2	3809.4	3815.4
20°	3657.0	3669.0	3683.3	3704.7	3711.8
22.5°	3536.8	3559.4	3583.3	3611.8	3602.3
25°	3426.1	3454.7	3482.1	3510.6	3502.3
27.5°	3308.2	3341.5	3379.7	3410.6	3398.7
30°	3195.1	3236.8	3273.7	3311.8	3294.0
32.5°	3083.3	3122.6	3166.6	3213.0	3192.8
35°	2970.2	3005.9	3057.1	3103.5	3088.0
37.5°	2845.2	2889.2	2947.5	2988.0	2977.3
40°	2728.5	2769.0	2839.2	2865.4	2863.0
42.5°	2610.6	2644.0	2717.8	2747.5	2742.8
45°	2466.6	2510.7	2595.1	2623.8	2626.1
47.5°	2339.2	2376.2	2466.6	2489.2	2494.0
50°	2192.8	2239.3	2329.7	2357.0	2360.7
52.5°	2048.7	2098.7	2191.6	2210.6	2214.3
55°	1902.3	1947.5	2048.7	2063.1	2057.1
57.5°	1748.8	1803.5	1896.4	1903.5	1909.5
60°	1598.7	1646.4	1736.8	1746.4	1733.3
62.5°	1435.7	1484.5	1577.4	1579.7	1569.0
65°	1280.9	1317.8	1411.8	1409.5	1402.3
67.5°	1119.0	1164.2	1233.3	1235.6	1229.8
70°	967.8	998.8	1065.4	1066.7	1052.4
72.5°	804.8	838.1	891.6	884.5	881.0
75°	646.4	672.6	714.3	719.1	707.1
77.5°	501.2	520.2	551.2	547.6	534.5
80°	352.3	367.8	390.5	385.7	371.4
82.5°	224.9	234.6	248.8	242.9	236.9
85°	122.6	123.8	125.0	123.8	120.2
87.5°	45.2	46.4	46.4	45.2	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)