

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: P489555

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-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: P489555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-5LO-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

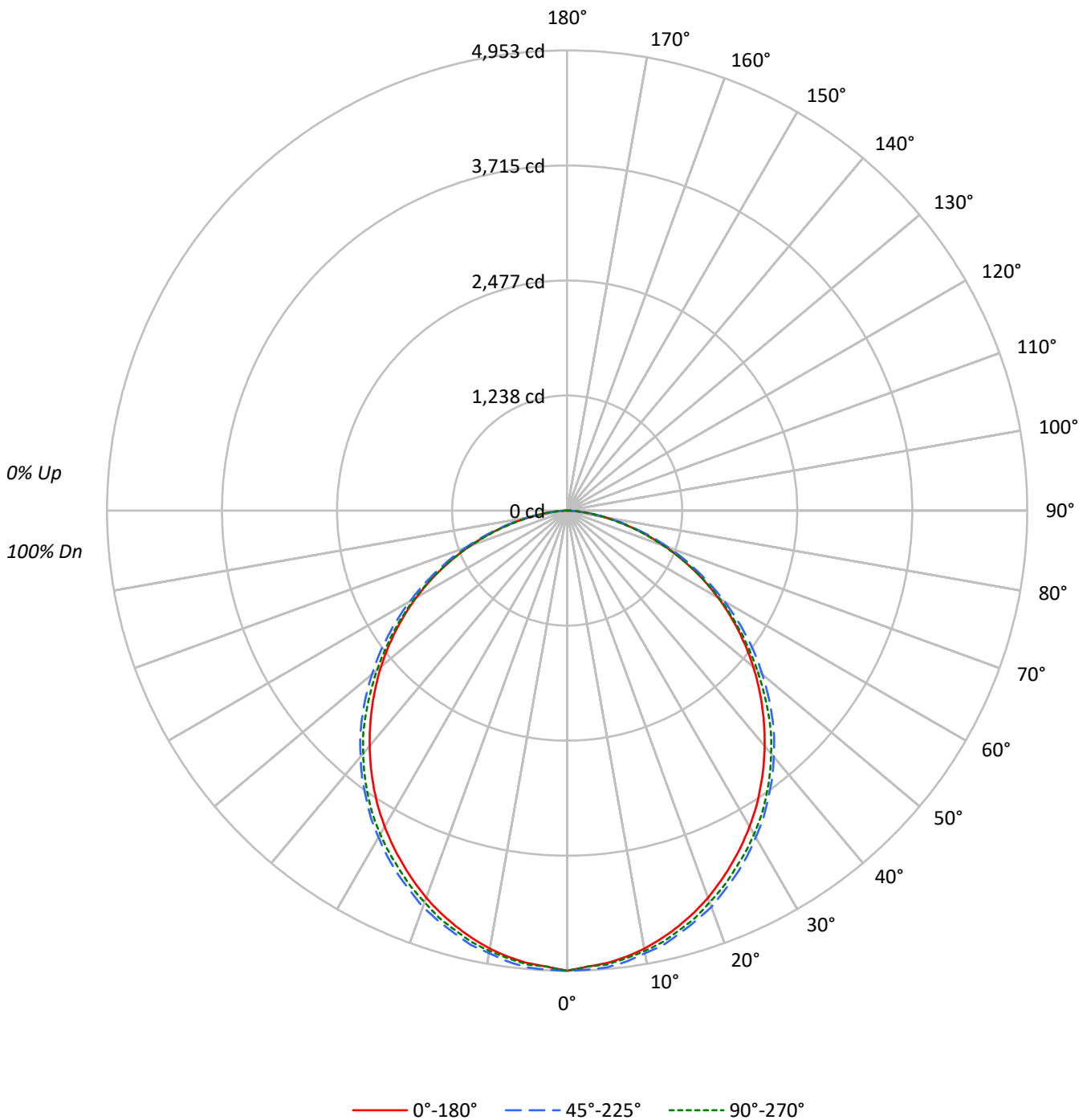
Lumens per Lamp: N/A
Luminaire Lumens: 13022.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-5LO-30-120-EDD

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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6664	6664	6664
5°	6603	6665	6624
10°	6542	6609	6577
15°	6452	6556	6510
20°	6350	6501	6423
25°	6226	6407	6334
30°	6101	6308	6250
35°	5963	6200	6142
40°	5808	6076	5999
45°	5645	5930	5818
50°	5476	5740	5590
55°	5277	5524	5354
60°	5052	5262	5099
65°	4762	4944	4765
70°	4381	4558	4332
75°	3858	4033	3799
80°	3135	3271	3099
85°	2183	2326	2271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	3.6
10°-20°	1321.9	10.2
20°-30°	1971.6	15.1
30°-40°	2336.4	17.9
40°-50°	2364.1	18.2
50°-60°	2064.7	15.9
60°-70°	1508.8	11.6
70°-80°	802.8	6.2
80°-90°	185.5	1.4
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°	3760.1	28.9
0°-40°	6096.4	46.8
0°-60°	10525.2	80.8
0°-90°	13022.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13022.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4953	4953	4953	4953	4953	
5°	4889	4898	4935	4946	4904	464
15°	4632	4663	4706	4735	4674	1306
25°	4194	4246	4316	4332	4266	1932
35°	3630	3687	3774	3801	3739	2270
45°	2967	3020	3116	3119	3058	2289
55°	2250	2295	2355	2321	2283	2011
65°	1496	1526	1553	1522	1497	1480
75°	742	759	776	747	731	789
85°	141	144	151	152	147	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4953.2	4953.2	4953.2	4953.2	4953.2
2.5°	4914.5	4930.5	4947.0	4954.3	4914.0
5°	4888.7	4898.0	4934.6	4946.0	4904.2
7.5°	4846.4	4860.3	4895.9	4901.1	4860.8
10°	4788.6	4813.4	4837.1	4862.9	4813.9
12.5°	4714.8	4748.3	4788.6	4793.2	4756.1
15°	4631.7	4662.7	4706.5	4734.9	4673.5
17.5°	4538.8	4568.7	4625.5	4630.7	4593.5
20°	4435.1	4472.2	4540.4	4552.2	4485.7
22.5°	4317.4	4367.5	4424.2	4435.6	4386.6
25°	4194.1	4245.7	4315.9	4331.9	4266.3
27.5°	4065.1	4114.6	4193.6	4204.9	4149.7
30°	3926.8	3973.2	4059.9	4079.0	4022.7
32.5°	3786.4	3832.8	3928.8	3944.8	3890.1
35°	3630.5	3687.3	3774.5	3800.8	3739.4
37.5°	3471.6	3526.8	3625.9	3649.6	3583.6
40°	3307.0	3361.7	3459.2	3478.8	3415.3
42.5°	3138.7	3193.4	3297.7	3300.8	3248.1
45°	2966.9	3019.5	3116.5	3119.1	3057.7
47.5°	2792.4	2845.6	2932.3	2922.5	2864.7
50°	2615.9	2666.5	2742.4	2722.8	2670.7
52.5°	2433.3	2482.3	2554.0	2522.0	2473.0
55°	2249.5	2295.0	2354.8	2320.8	2282.6
57.5°	2064.3	2110.2	2156.1	2121.6	2088.5
60°	1877.5	1917.7	1955.4	1920.3	1895.0
62.5°	1687.5	1722.1	1754.6	1721.1	1697.3
65°	1495.6	1526.0	1552.8	1521.9	1496.6
67.5°	1304.6	1330.4	1355.2	1323.2	1296.9
70°	1113.7	1135.9	1158.6	1125.5	1101.3
72.5°	925.3	944.9	965.0	933.1	911.9
75°	742.1	759.1	775.7	747.3	730.8
77.5°	567.2	581.6	593.0	574.9	558.9
80°	404.6	415.4	422.1	414.9	400.0
82.5°	260.1	267.8	271.5	270.9	261.1
85°	141.4	144.0	150.7	152.2	147.1
87.5°	54.7	58.3	59.9	64.5	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)