

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: P489501

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-50-120-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: P489501
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-LD4-3STD-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

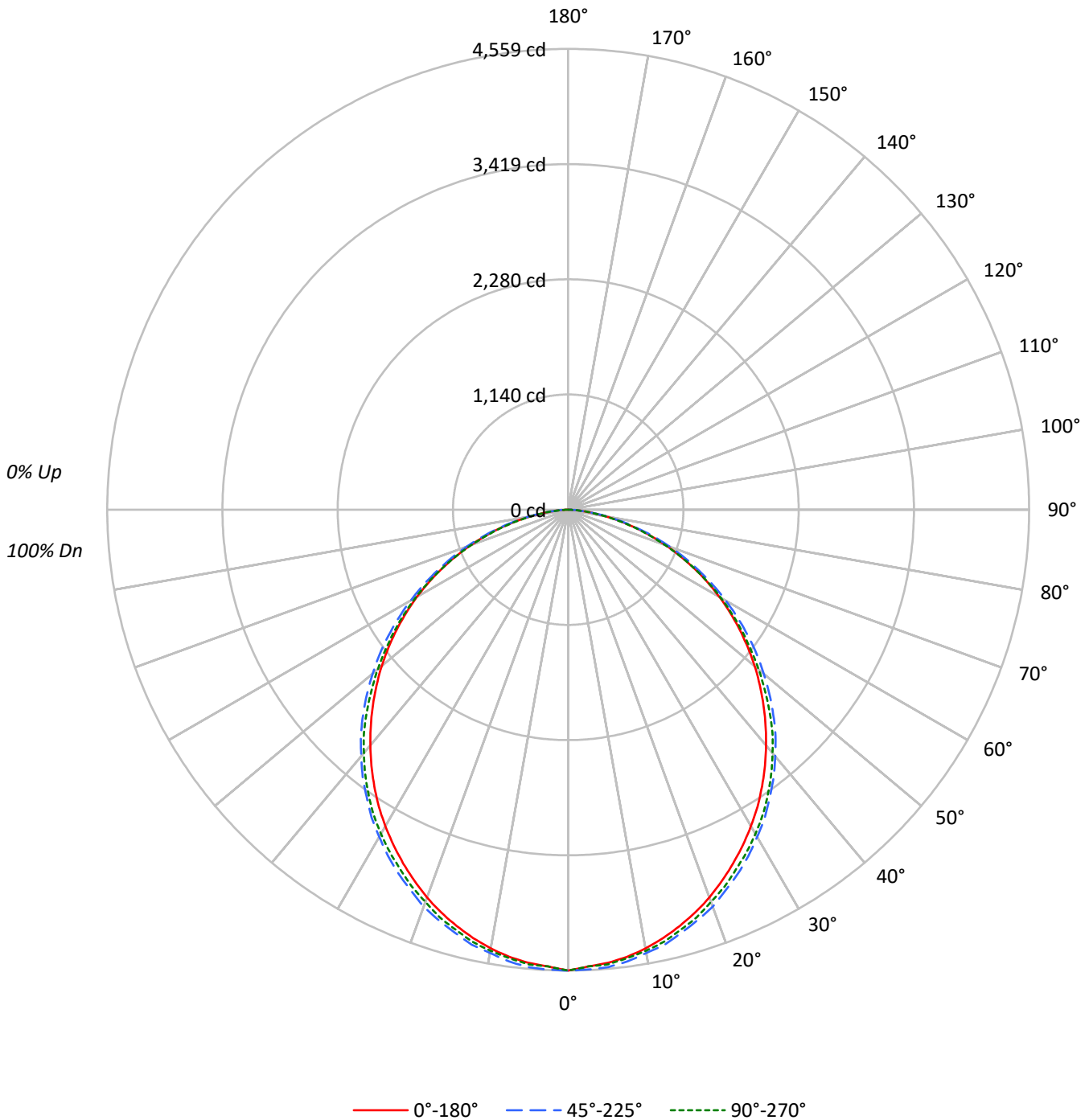
Lumens per Lamp: N/A
Luminaire Lumens: 11986.9 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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	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°	6135	6135	6135
5°	6078	6135	6097
10°	6022	6083	6054
15°	5939	6035	5992
20°	5845	5984	5912
25°	5731	5898	5830
30°	5616	5806	5753
35°	5489	5707	5654
40°	5347	5593	5522
45°	5197	5459	5356
50°	5040	5284	5146
55°	4857	5085	4929
60°	4651	4843	4694
65°	4383	4551	4386
70°	4033	4196	3988
75°	3551	3712	3497
80°	2885	3011	2853
85°	2010	2141	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.4	3.6
10°-20°	1216.8	10.2
20°-30°	1814.9	15.1
30°-40°	2150.6	17.9
40°-50°	2176.1	18.2
50°-60°	1900.5	15.9
60°-70°	1388.8	11.6
70°-80°	739.0	6.2
80°-90°	170.8	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°	3461.1	28.9
0°-40°	5611.7	46.8
0°-60°	9688.3	80.8
0°-90°	11986.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11986.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4559	4559	4559	4559	4559	
5°	4500	4509	4542	4553	4514	427
15°	4263	4292	4332	4358	4302	1202
25°	3861	3908	3973	3987	3927	1779
35°	3342	3394	3474	3499	3442	2090
45°	2731	2779	2869	2871	2815	2107
55°	2071	2112	2168	2136	2101	1851
65°	1377	1405	1429	1401	1378	1362
75°	683	699	714	688	673	726
85°	130	132	139	140	135	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4559.4	4559.4	4559.4	4559.4	4559.4
2.5°	4523.8	4538.5	4553.7	4560.3	4523.3
5°	4500.0	4508.6	4542.3	4552.7	4514.3
7.5°	4461.1	4473.9	4506.7	4511.4	4474.4
10°	4407.9	4430.7	4452.5	4476.3	4431.1
12.5°	4339.9	4370.8	4407.9	4412.1	4377.9
15°	4263.4	4291.9	4332.3	4358.5	4301.9
17.5°	4177.9	4205.5	4257.7	4262.5	4228.3
20°	4082.5	4116.7	4179.4	4190.3	4129.0
22.5°	3974.1	4020.2	4072.5	4082.9	4037.8
25°	3860.6	3908.1	3972.7	3987.4	3927.1
27.5°	3741.9	3787.5	3860.1	3870.6	3819.8
30°	3614.5	3657.3	3737.1	3754.7	3702.9
32.5°	3485.3	3528.1	3616.4	3631.2	3580.8
35°	3341.9	3394.1	3474.4	3498.6	3442.1
37.5°	3195.6	3246.4	3337.6	3359.5	3298.6
40°	3044.0	3094.4	3184.2	3202.2	3143.8
42.5°	2889.2	2939.5	3035.5	3038.3	2989.9
45°	2731.0	2779.4	2868.7	2871.1	2814.6
47.5°	2570.4	2619.3	2699.2	2690.1	2636.9
50°	2408.0	2454.5	2524.3	2506.3	2458.3
52.5°	2239.8	2284.9	2351.0	2321.5	2276.4
55°	2070.7	2112.5	2167.6	2136.2	2101.1
57.5°	1900.1	1942.4	1984.7	1952.9	1922.5
60°	1728.2	1765.2	1799.9	1767.6	1744.3
62.5°	1553.4	1585.2	1615.1	1584.2	1562.4
65°	1376.7	1404.7	1429.4	1400.9	1377.6
67.5°	1200.9	1224.6	1247.4	1218.0	1193.8
70°	1025.1	1045.6	1066.5	1036.1	1013.7
72.5°	851.7	869.8	888.3	858.9	839.4
75°	683.1	698.8	714.0	687.9	672.7
77.5°	522.1	535.4	545.8	529.2	514.5
80°	372.4	382.4	388.6	381.9	368.2
82.5°	239.4	246.5	249.9	249.4	240.4
85°	130.2	132.5	138.7	140.1	135.4
87.5°	50.4	53.7	55.1	59.4	54.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)