

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: P489436

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-35-120-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: P489436
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-LD4-2HI-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

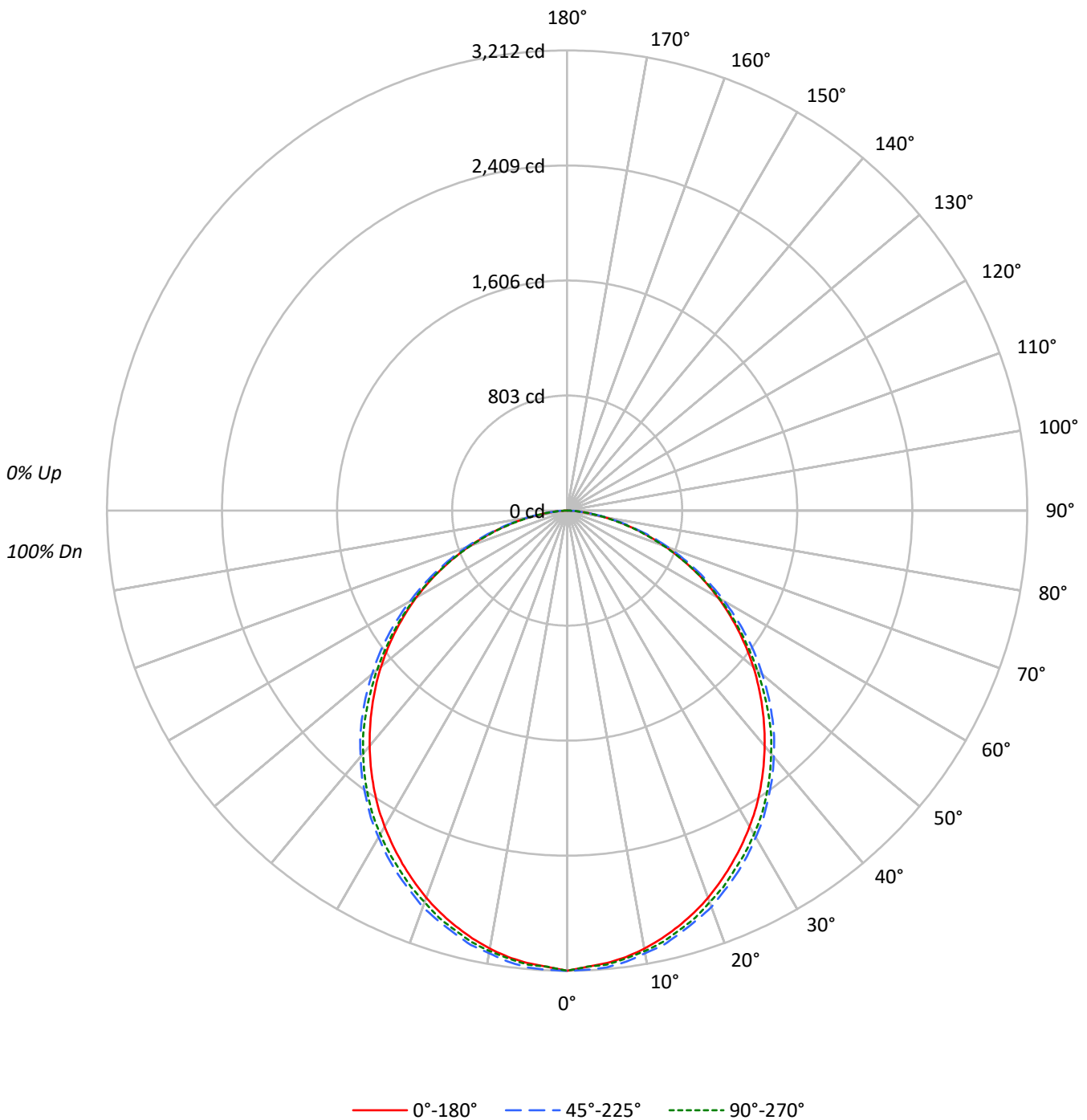
Lumens per Lamp: N/A
Luminaire Lumens: 8445.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	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°	4322	4322	4322
5°	4282	4322	4296
10°	4243	4286	4265
15°	4184	4252	4222
20°	4118	4216	4165
25°	4038	4155	4108
30°	3957	4091	4053
35°	3868	4021	3983
40°	3767	3940	3890
45°	3661	3846	3773
50°	3551	3723	3625
55°	3422	3582	3472
60°	3277	3412	3307
65°	3088	3206	3090
70°	2841	2956	2810
75°	2502	2615	2464
80°	2033	2122	2010
85°	1416	1508	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	3.6
10°-20°	857.3	10.2
20°-30°	1278.7	15.1
30°-40°	1515.2	17.9
40°-50°	1533.2	18.2
50°-60°	1339.0	15.9
60°-70°	978.5	11.6
70°-80°	520.6	6.2
80°-90°	120.3	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°	2438.6	28.9
0°-40°	3953.8	46.8
0°-60°	6826.0	80.8
0°-90°	8445.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8445.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3212	3212	3212	3212	3212	
5°	3170	3177	3200	3208	3181	301
15°	3004	3024	3052	3071	3031	847
25°	2720	2754	2799	2809	2767	1253
35°	2355	2391	2448	2465	2425	1472
45°	1924	1958	2021	2023	1983	1484
55°	1459	1488	1527	1505	1480	1304
65°	970	990	1007	987	971	960
75°	481	492	503	485	474	512
85°	92	93	98	99	95	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3212.4	3212.4	3212.4	3212.4	3212.4
2.5°	3187.3	3197.6	3208.4	3213.0	3186.9
5°	3170.5	3176.6	3200.3	3207.7	3180.6
7.5°	3143.1	3152.1	3175.2	3178.6	3152.5
10°	3105.6	3121.7	3137.1	3153.8	3122.0
12.5°	3057.7	3079.5	3105.6	3108.6	3084.5
15°	3003.9	3023.9	3052.4	3070.8	3031.0
17.5°	2943.6	2963.0	2999.8	3003.2	2979.1
20°	2876.3	2900.4	2944.6	2952.3	2909.1
22.5°	2800.0	2832.5	2869.3	2876.7	2844.9
25°	2720.0	2753.5	2799.0	2809.4	2766.9
27.5°	2636.4	2668.5	2719.7	2727.1	2691.3
30°	2546.7	2576.8	2633.0	2645.4	2608.9
32.5°	2455.6	2485.8	2548.0	2558.4	2522.9
35°	2354.6	2391.4	2447.9	2465.0	2425.2
37.5°	2251.5	2287.3	2351.5	2366.9	2324.1
40°	2144.7	2180.2	2243.4	2256.2	2215.0
42.5°	2035.6	2071.1	2138.7	2140.7	2106.5
45°	1924.1	1958.3	2021.2	2022.9	1983.0
47.5°	1811.0	1845.5	1901.7	1895.4	1857.9
50°	1696.6	1729.4	1778.5	1765.8	1732.0
52.5°	1578.1	1609.9	1656.4	1635.6	1603.8
55°	1458.9	1488.4	1527.2	1505.1	1480.3
57.5°	1338.8	1368.6	1398.3	1375.9	1354.5
60°	1217.6	1243.7	1268.1	1245.4	1229.0
62.5°	1094.4	1116.9	1138.0	1116.2	1100.8
65°	969.9	989.7	1007.1	987.0	970.6
67.5°	846.1	862.8	878.9	858.1	841.1
70°	722.3	736.7	751.4	730.0	714.2
72.5°	600.1	612.8	625.9	605.1	591.4
75°	481.3	492.3	503.0	484.6	473.9
77.5°	367.8	377.2	384.6	372.8	362.5
80°	262.4	269.4	273.8	269.1	259.4
82.5°	168.7	173.7	176.0	175.7	169.4
85°	91.7	93.4	97.7	98.7	95.4
87.5°	35.5	37.8	38.8	41.8	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)