

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: P489433

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-27-120-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: P489433
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

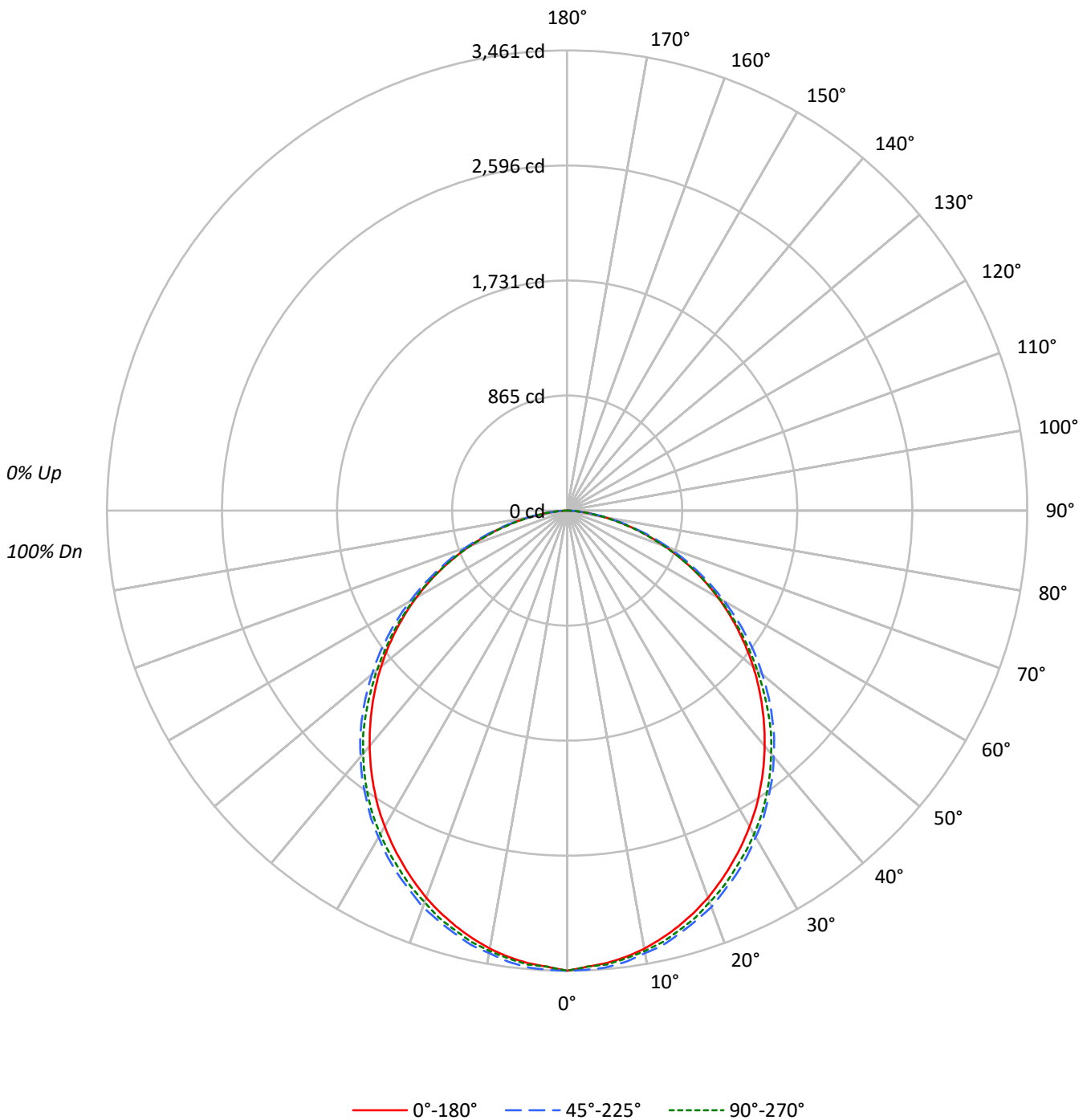
Lumens per Lamp: N/A
Luminaire Lumens: 9099.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4657	4657	4657
5°	4614	4657	4628
10°	4571	4618	4596
15°	4508	4581	4549
20°	4437	4543	4488
25°	4351	4477	4426
30°	4263	4407	4367
35°	4167	4332	4292
40°	4059	4245	4192
45°	3945	4144	4065
50°	3826	4011	3906
55°	3687	3860	3741
60°	3530	3677	3563
65°	3327	3454	3329
70°	3061	3185	3027
75°	2695	2818	2654
80°	2190	2286	2166
85°	1525	1626	1587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	3.6
10°-20°	923.7	10.2
20°-30°	1377.6	15.1
30°-40°	1632.5	17.9
40°-50°	1651.9	18.2
50°-60°	1442.7	15.9
60°-70°	1054.2	11.6
70°-80°	560.9	6.2
80°-90°	129.6	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°	2627.3	28.9
0°-40°	4259.8	46.8
0°-60°	7354.3	80.8
0°-90°	9099.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9099.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3461	3461	3461	3461	3461	
5°	3416	3422	3448	3456	3427	324
15°	3236	3258	3289	3308	3266	912
25°	2930	2967	3016	3027	2981	1350
35°	2537	2576	2637	2656	2613	1586
45°	2073	2110	2178	2179	2136	1599
55°	1572	1604	1645	1622	1595	1405
65°	1045	1066	1085	1063	1046	1034
75°	518	530	542	522	511	551
85°	99	101	105	106	103	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3461.0	3461.0	3461.0	3461.0	3461.0
2.5°	3433.9	3445.1	3456.6	3461.7	3433.6
5°	3415.9	3422.4	3448.0	3455.9	3426.7
7.5°	3386.3	3396.1	3420.9	3424.6	3396.4
10°	3345.9	3363.3	3379.8	3397.9	3363.6
12.5°	3294.4	3317.8	3345.9	3349.2	3323.2
15°	3236.3	3258.0	3288.6	3308.4	3265.5
17.5°	3171.4	3192.3	3232.0	3235.6	3209.6
20°	3098.9	3124.9	3172.5	3180.8	3134.3
22.5°	3016.7	3051.7	3091.4	3099.3	3065.0
25°	2930.5	2966.6	3015.6	3026.8	2981.0
27.5°	2840.4	2875.0	2930.2	2938.1	2899.5
30°	2743.8	2776.2	2836.8	2850.1	2810.8
32.5°	2645.7	2678.1	2745.2	2756.4	2718.2
35°	2536.8	2576.4	2637.4	2655.8	2612.9
37.5°	2425.7	2464.3	2533.5	2550.1	2504.0
40°	2310.7	2348.9	2417.1	2430.8	2386.4
42.5°	2193.1	2231.4	2304.2	2306.4	2269.6
45°	2073.1	2109.8	2177.6	2179.4	2136.5
47.5°	1951.2	1988.3	2048.9	2042.0	2001.7
50°	1827.8	1863.2	1916.2	1902.5	1866.1
52.5°	1700.2	1734.5	1784.6	1762.2	1728.0
55°	1571.8	1603.6	1645.4	1621.6	1594.9
57.5°	1442.4	1474.5	1506.6	1482.4	1459.3
60°	1311.8	1340.0	1366.3	1341.8	1324.1
62.5°	1179.1	1203.3	1226.0	1202.6	1186.0
65°	1045.0	1066.3	1085.0	1063.4	1045.7
67.5°	911.6	929.6	946.9	924.6	906.2
70°	778.2	793.7	809.5	786.5	769.5
72.5°	646.5	660.2	674.3	652.0	637.2
75°	518.5	530.4	542.0	522.1	510.6
77.5°	396.3	406.4	414.3	401.7	390.5
80°	282.7	290.3	295.0	289.9	279.5
82.5°	181.7	187.1	189.7	189.3	182.5
85°	98.8	100.6	105.3	106.4	102.8
87.5°	38.2	40.7	41.8	45.1	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)