

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: P489854

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-30-120-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: P489854
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-LD4-3STD-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

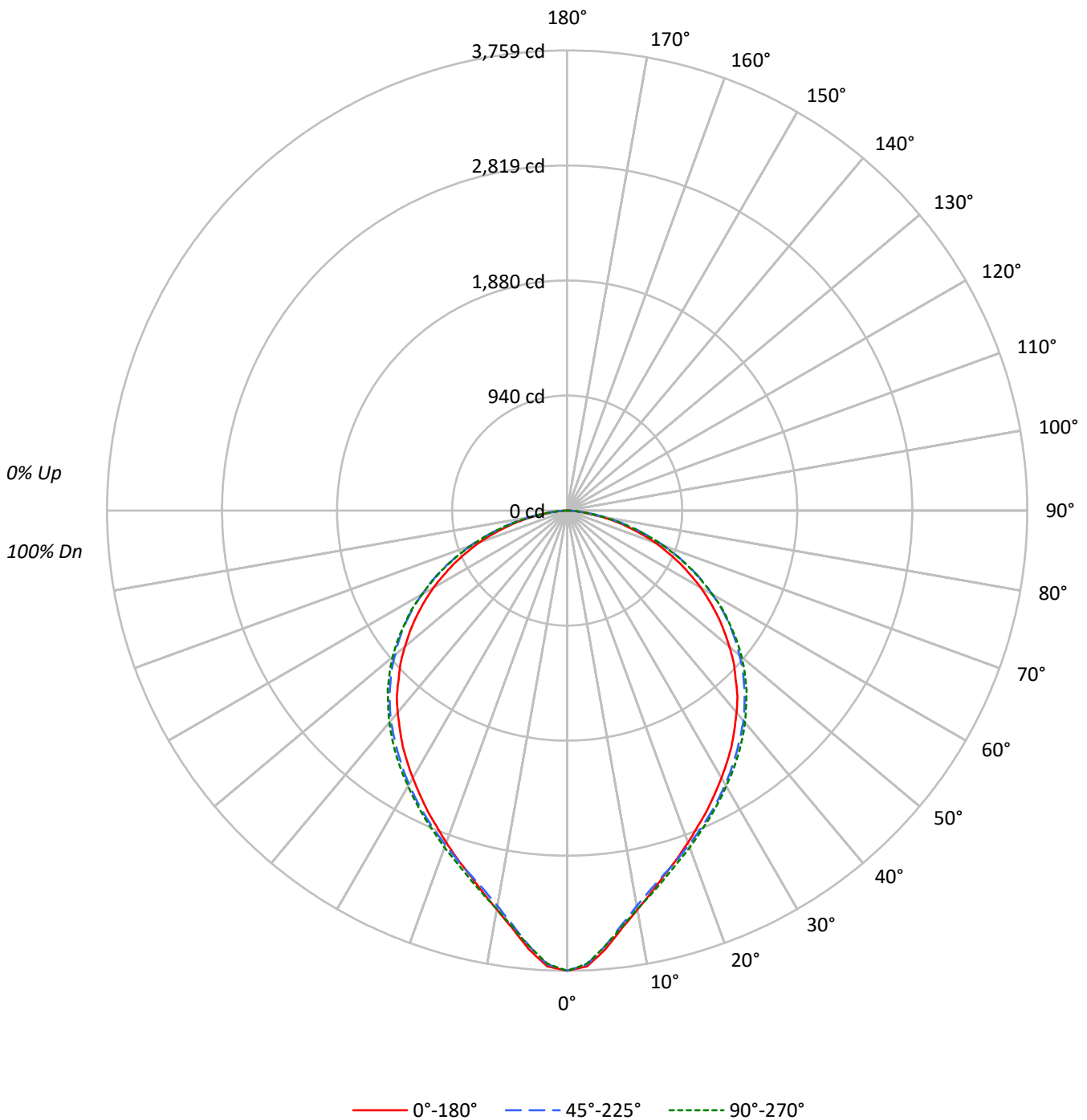
Lumens per Lamp: N/A
Luminaire Lumens: 8731.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5057	5057	5057
5°	4856	4822	4822
10°	4520	4478	4513
15°	4289	4281	4323
20°	4131	4161	4193
25°	4013	4079	4102
30°	3917	4013	4038
35°	3849	3962	4002
40°	3781	3935	3967
45°	3703	3896	3942
50°	3621	3848	3899
55°	3521	3792	3807
60°	3394	3687	3680
65°	3217	3546	3522
70°	3004	3307	3266
75°	2651	2930	2900
80°	2154	2387	2270
85°	1494	1522	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	3.8
10°-20°	870.0	10.0
20°-30°	1265.1	14.5
30°-40°	1505.5	17.2
40°-50°	1563.2	17.9
50°-60°	1416.2	16.2
60°-70°	1068.6	12.2
70°-80°	582.3	6.7
80°-90°	127.9	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°	2467.3	28.3
0°-40°	3972.8	45.5
0°-60°	6952.1	79.6
0°-90°	8731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3759	3759	3759	3759	3759	
5°	3595	3587	3570	3568	3570	334
15°	3079	3071	3073	3094	3103	869
25°	2703	2726	2747	2770	2763	1246
35°	2343	2372	2412	2449	2436	1465
45°	1946	1981	2048	2070	2072	1504
55°	1501	1537	1616	1628	1623	1340
65°	1011	1040	1114	1112	1106	999
75°	510	531	564	567	558	543
85°	97	98	99	98	95	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3758.8	3758.8	3758.8	3758.8	3758.8
2.5°	3725.9	3722.2	3710.0	3705.3	3704.3
5°	3595.4	3586.9	3570.0	3568.2	3570.0
7.5°	3439.5	3430.1	3413.2	3419.8	3428.2
10°	3308.0	3284.5	3277.9	3287.3	3303.3
12.5°	3190.6	3171.8	3166.1	3190.6	3201.9
15°	3078.8	3071.3	3073.2	3093.9	3103.2
17.5°	2982.1	2977.4	2989.6	3005.6	3010.3
20°	2885.3	2894.8	2906.0	2922.9	2928.5
22.5°	2790.5	2808.3	2827.1	2849.6	2842.1
25°	2703.1	2725.7	2747.3	2769.8	2763.3
27.5°	2610.1	2636.4	2666.5	2690.9	2681.5
30°	2520.9	2553.8	2582.9	2612.9	2598.9
32.5°	2432.7	2463.6	2498.4	2535.0	2519.0
35°	2343.4	2371.6	2412.0	2448.6	2436.4
37.5°	2244.8	2279.5	2325.5	2357.4	2349.1
40°	2152.7	2184.7	2240.1	2260.8	2258.8
42.5°	2059.7	2086.1	2144.3	2167.8	2164.0
45°	1946.1	1980.9	2047.5	2070.1	2071.9
47.5°	1845.6	1874.7	1946.1	1963.9	1967.7
50°	1730.1	1766.7	1838.1	1859.7	1862.5
52.5°	1616.4	1655.8	1729.1	1744.1	1747.0
55°	1500.9	1536.6	1616.4	1627.7	1623.0
57.5°	1379.8	1422.9	1496.2	1501.8	1506.5
60°	1261.4	1299.0	1370.3	1377.8	1367.5
62.5°	1132.7	1171.2	1244.5	1246.3	1237.9
65°	1010.6	1039.7	1113.9	1112.1	1106.4
67.5°	882.8	918.5	973.1	974.9	970.3
70°	763.6	788.0	840.6	841.6	830.3
72.5°	634.9	661.2	703.4	697.9	695.1
75°	510.0	530.7	563.6	567.3	557.9
77.5°	395.4	410.4	434.9	432.1	421.7
80°	278.0	290.2	308.1	304.3	293.0
82.5°	177.5	185.1	196.3	191.6	186.9
85°	96.8	97.6	98.6	97.6	94.8
87.5°	35.7	36.6	36.6	35.7	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)