

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: P489860

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-50-120-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: P489860
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-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

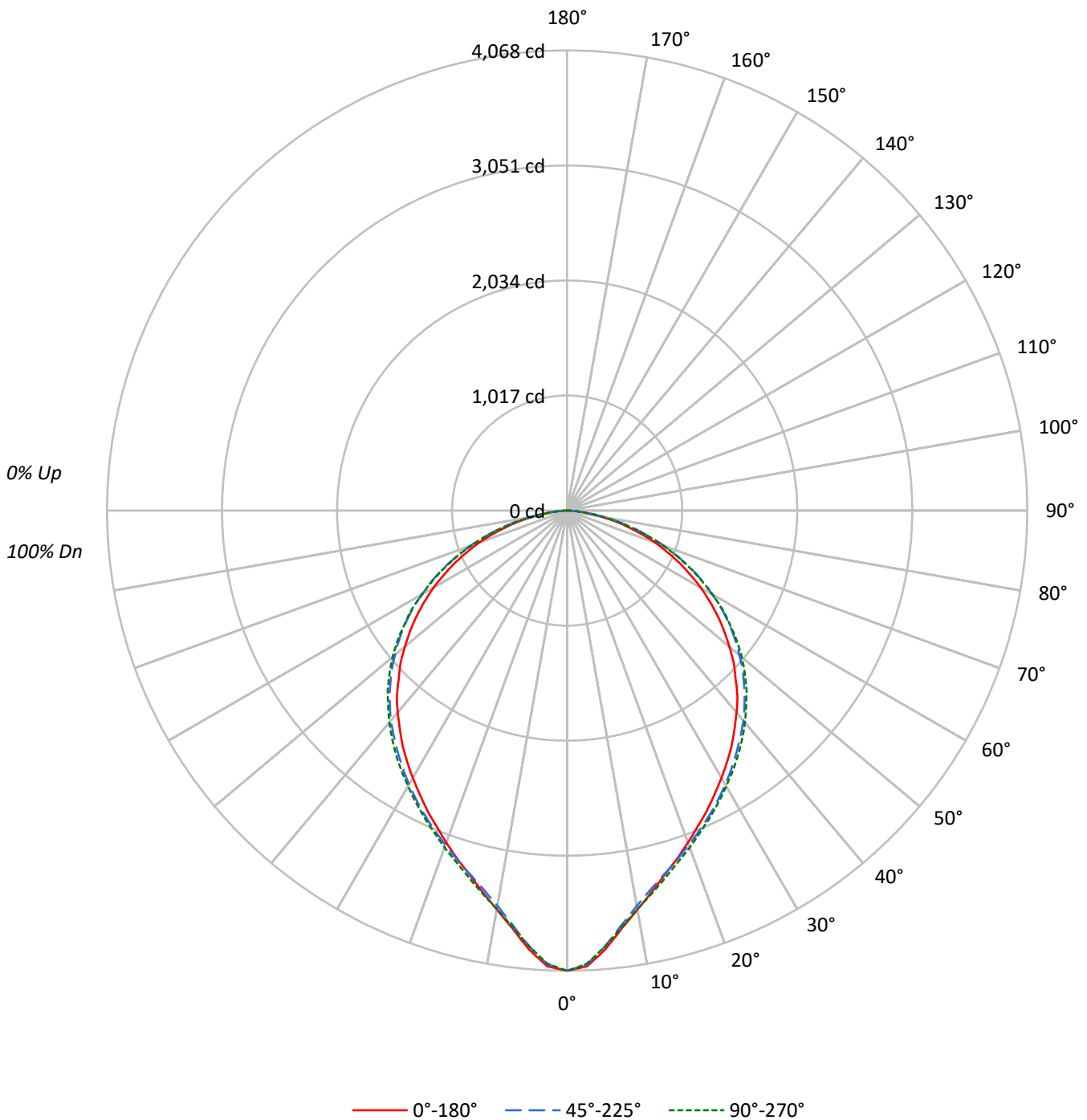
Lumens per Lamp: N/A
Luminaire Lumens: 9448.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5473	5473	5473
5°	5255	5218	5218
10°	4891	4847	4884
15°	4641	4633	4678
20°	4471	4503	4538
25°	4343	4414	4440
30°	4238	4343	4370
35°	4166	4288	4331
40°	4092	4258	4294
45°	4008	4216	4267
50°	3919	4164	4219
55°	3810	4103	4120
60°	3673	3991	3983
65°	3482	3838	3812
70°	3251	3579	3535
75°	2869	3171	3139
80°	2331	2583	2457
85°	1616	1647	1584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	3.8
10°-20°	941.5	10.0
20°-30°	1369.2	14.5
30°-40°	1629.3	17.2
40°-50°	1691.7	17.9
50°-60°	1532.6	16.2
60°-70°	1156.5	12.2
70°-80°	630.1	6.7
80°-90°	138.5	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°	2670.2	28.3
0°-40°	4299.4	45.5
0°-60°	7523.8	79.6
0°-90°	9448.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9448.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4068	4068	4068	4068	4068	
5°	3891	3882	3864	3862	3864	361
15°	3332	3324	3326	3348	3358	940
25°	2925	2950	2973	2998	2990	1348
35°	2536	2567	2610	2650	2637	1586
45°	2106	2144	2216	2240	2242	1628
55°	1624	1663	1749	1762	1756	1450
65°	1094	1125	1206	1204	1197	1081
75°	552	574	610	614	604	588
85°	105	106	107	106	103	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4067.9	4067.9	4067.9	4067.9	4067.9
2.5°	4032.3	4028.2	4015.0	4009.9	4008.9
5°	3891.0	3881.9	3863.6	3861.6	3863.6
7.5°	3722.3	3712.1	3693.9	3701.0	3710.1
10°	3580.0	3554.6	3547.4	3557.6	3574.9
12.5°	3452.9	3432.6	3426.5	3452.9	3465.2
15°	3331.9	3323.8	3325.9	3348.3	3358.4
17.5°	3227.3	3222.2	3235.4	3252.7	3257.8
20°	3122.6	3132.8	3145.0	3163.3	3169.3
22.5°	3019.9	3039.2	3059.6	3084.0	3075.8
25°	2925.4	2949.8	2973.2	2997.6	2990.5
27.5°	2824.7	2853.2	2885.7	2912.2	2902.0
30°	2728.1	2763.7	2795.3	2827.8	2812.6
32.5°	2632.7	2666.2	2703.8	2743.4	2726.2
35°	2536.1	2566.6	2610.3	2650.0	2636.7
37.5°	2429.4	2467.0	2516.7	2551.3	2542.2
40°	2329.7	2364.3	2424.3	2446.7	2444.6
42.5°	2229.1	2257.6	2320.6	2346.0	2341.9
45°	2106.1	2143.7	2215.9	2240.3	2242.3
47.5°	1997.4	2028.9	2106.1	2125.4	2129.5
50°	1872.3	1912.0	1989.2	2012.6	2015.7
52.5°	1749.3	1792.0	1871.3	1887.5	1890.7
55°	1624.3	1662.9	1749.3	1761.6	1756.5
57.5°	1493.2	1539.9	1619.3	1625.3	1630.4
60°	1365.1	1405.8	1483.0	1491.1	1480.0
62.5°	1225.9	1267.5	1346.8	1348.8	1339.7
65°	1093.7	1125.2	1205.5	1203.5	1197.4
67.5°	955.4	994.1	1053.1	1055.1	1050.0
70°	826.4	852.8	909.7	910.8	898.6
72.5°	687.2	715.6	761.3	755.2	752.2
75°	551.9	574.3	609.9	614.0	603.8
77.5°	428.0	444.2	470.6	467.6	456.4
80°	300.9	314.1	333.4	329.4	317.1
82.5°	192.1	200.3	212.5	207.4	202.3
85°	104.7	105.7	106.7	105.7	102.6
87.5°	38.6	39.7	39.7	38.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)