

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: P489801

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-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: P489801
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-LD4-2HI-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

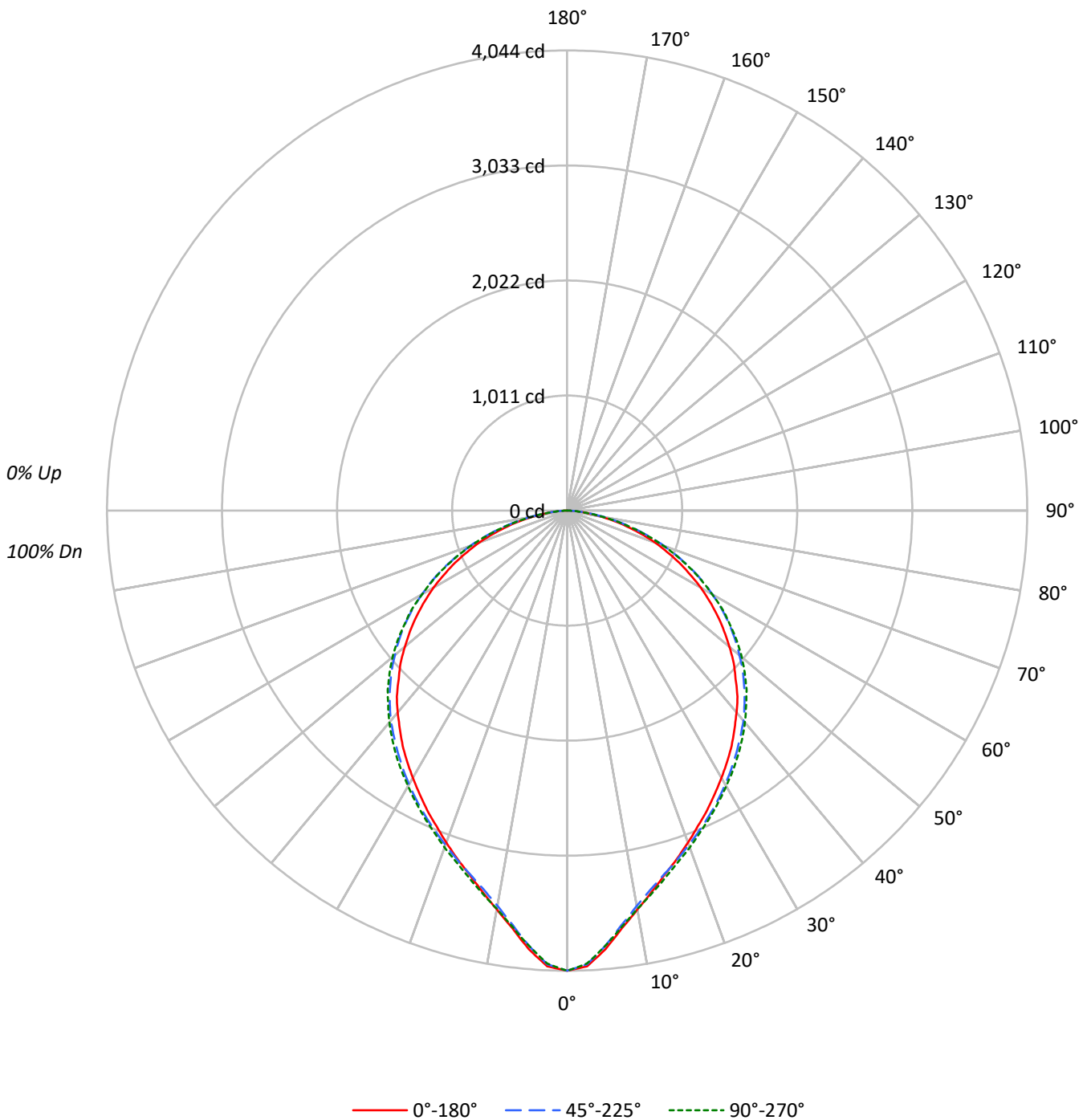
Lumens per Lamp: N/A
Luminaire Lumens: 9393.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5441	5441	5441
5°	5224	5187	5187
10°	4862	4818	4855
15°	4614	4605	4650
20°	4445	4477	4511
25°	4317	4388	4413
30°	4213	4317	4344
35°	4141	4262	4305
40°	4068	4233	4268
45°	3984	4192	4242
50°	3896	4139	4194
55°	3788	4079	4096
60°	3652	3967	3959
65°	3461	3815	3790
70°	3232	3558	3514
75°	2852	3152	3120
80°	2318	2569	2442
85°	1607	1638	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	3.8
10°-20°	936.0	10.0
20°-30°	1361.1	14.5
30°-40°	1619.6	17.2
40°-50°	1681.8	17.9
50°-60°	1523.6	16.2
60°-70°	1149.7	12.2
70°-80°	626.4	6.7
80°-90°	137.6	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°	2654.4	28.3
0°-40°	4274.0	45.5
0°-60°	7479.4	79.6
0°-90°	9393.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9393.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4044	4044	4044	4044	4044	
5°	3868	3859	3841	3839	3841	359
15°	3312	3304	3306	3328	3338	935
25°	2908	2932	2956	2980	2973	1340
35°	2521	2551	2595	2634	2621	1576
45°	2094	2131	2203	2227	2229	1618
55°	1615	1653	1739	1751	1746	1442
65°	1087	1119	1198	1196	1190	1075
75°	549	571	606	610	600	584
85°	104	105	106	105	102	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4043.9	4043.9	4043.9	4043.9	4043.9
2.5°	4008.5	4004.5	3991.3	3986.2	3985.2
5°	3868.1	3859.0	3840.7	3838.8	3840.7
7.5°	3700.3	3690.2	3672.1	3679.1	3688.2
10°	3558.8	3533.6	3526.5	3536.6	3553.8
12.5°	3432.5	3412.3	3406.2	3432.5	3444.7
15°	3312.3	3304.2	3306.2	3328.5	3338.5
17.5°	3208.2	3203.2	3216.3	3233.5	3238.6
20°	3104.1	3114.3	3126.4	3144.6	3150.6
22.5°	3002.1	3021.2	3041.5	3065.7	3057.7
25°	2908.1	2932.4	2955.6	2979.8	2972.8
27.5°	2808.1	2836.3	2868.7	2895.0	2884.9
30°	2712.0	2747.4	2778.8	2811.1	2796.0
32.5°	2617.1	2650.5	2687.8	2727.2	2710.1
35°	2521.1	2551.4	2594.9	2634.3	2621.2
37.5°	2415.0	2452.4	2501.9	2536.2	2527.2
40°	2316.0	2350.3	2410.0	2432.2	2430.1
42.5°	2215.9	2244.3	2306.9	2332.1	2328.1
45°	2093.7	2131.1	2202.8	2227.1	2229.1
47.5°	1985.6	2016.9	2093.7	2112.9	2116.9
50°	1861.3	1900.7	1977.5	2000.7	2003.8
52.5°	1739.0	1781.4	1860.2	1876.4	1879.5
55°	1614.7	1653.1	1739.0	1751.2	1746.1
57.5°	1484.4	1530.9	1609.7	1615.7	1620.8
60°	1357.0	1397.5	1474.2	1482.3	1471.2
62.5°	1218.6	1260.0	1338.9	1340.9	1331.8
65°	1087.2	1118.6	1198.4	1196.4	1190.3
67.5°	949.8	988.2	1046.9	1048.8	1043.8
70°	821.5	847.8	904.4	905.4	893.3
72.5°	683.1	711.4	756.8	750.8	747.8
75°	548.7	570.9	606.3	610.3	600.2
77.5°	425.4	441.6	467.9	464.8	453.7
80°	299.1	312.2	331.5	327.4	315.2
82.5°	190.9	199.1	211.2	206.1	201.1
85°	104.1	105.0	106.1	105.0	102.0
87.5°	38.4	39.4	39.4	38.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)