

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: P489333

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4HI-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: P489333
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-24-2-INS-P12125-LD4-4HI-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

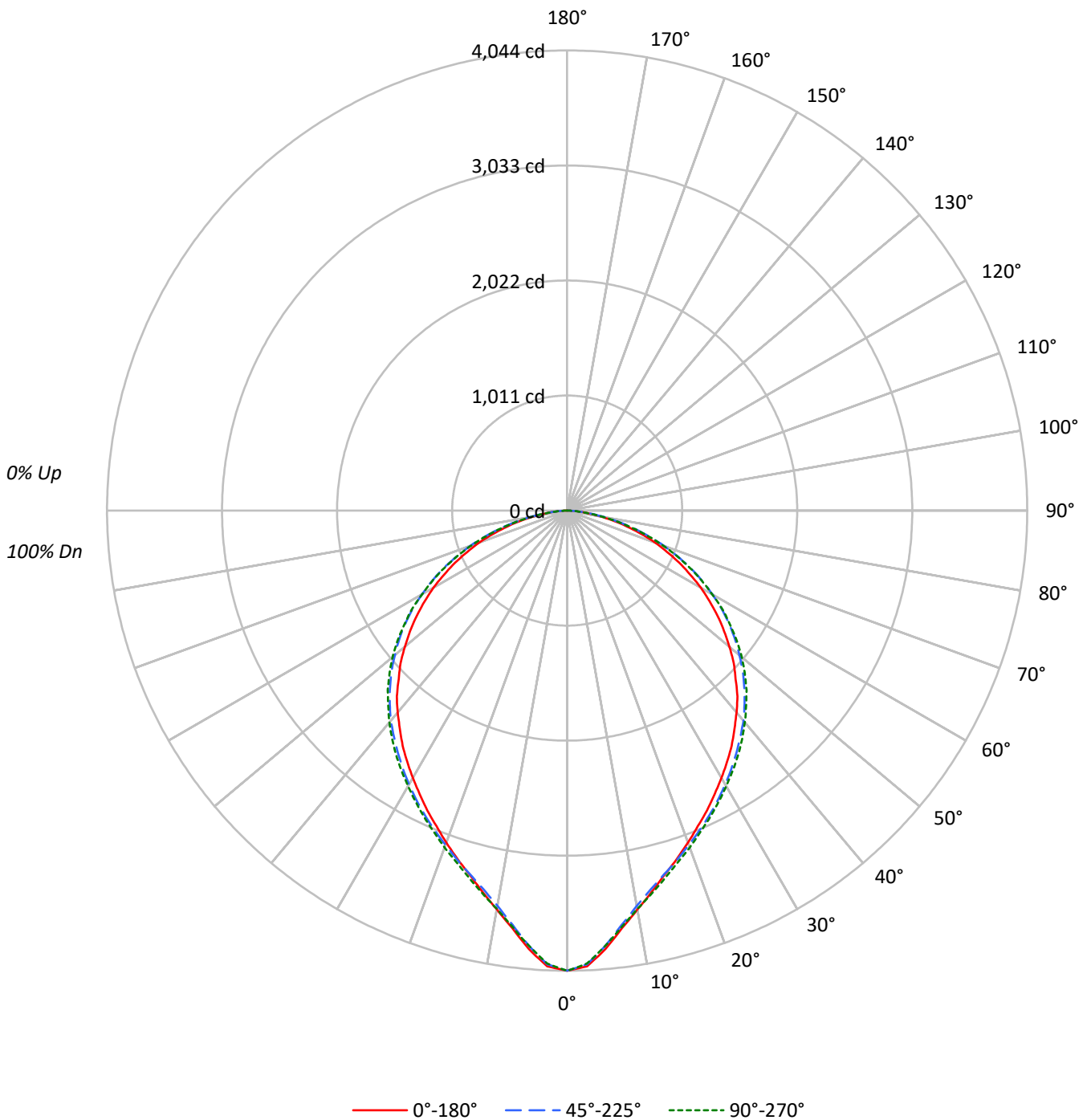
Lumens per Lamp: N/A
Luminaire Lumens: 9392.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	10882	10882	10882
5°	10448	10374	10374
10°	9724	9636	9710
15°	9227	9210	9300
20°	8889	8952	9022
25°	8634	8775	8826
30°	8427	8634	8687
35°	8282	8524	8611
40°	8135	8466	8536
45°	7967	8383	8483
50°	7792	8278	8388
55°	7575	8158	8191
60°	7303	7934	7918
65°	6923	7630	7578
70°	6463	7115	7028
75°	5705	6304	6240
80°	4635	5136	4885
85°	3214	3276	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	3.8
10°-20°	935.9	10.0
20°-30°	1361.0	14.5
30°-40°	1619.6	17.2
40°-50°	1681.7	17.9
50°-60°	1523.5	16.2
60°-70°	1149.6	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°	2654.3	28.3
0°-40°	4273.8	45.5
0°-60°	7479.0	79.6
0°-90°	9392.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9392.7	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	1118	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°	4043.7	4043.7	4043.7	4043.7	4043.7
2.5°	4008.3	4004.3	3991.1	3986.1	3985.0
5°	3867.9	3858.8	3840.6	3838.6	3840.6
7.5°	3700.2	3690.0	3671.9	3678.9	3688.0
10°	3558.7	3533.4	3526.3	3536.5	3553.6
12.5°	3432.4	3412.2	3406.1	3432.4	3444.6
15°	3312.1	3304.0	3306.1	3328.3	3338.4
17.5°	3208.1	3203.0	3216.2	3233.4	3238.4
20°	3104.0	3114.1	3126.2	3144.5	3150.5
22.5°	3002.0	3021.1	3041.4	3065.6	3057.5
25°	2908.0	2932.2	2955.5	2979.7	2972.7
27.5°	2807.9	2836.2	2868.6	2894.9	2884.7
30°	2711.9	2747.3	2778.7	2811.0	2795.8
32.5°	2617.0	2650.3	2687.7	2727.1	2709.9
35°	2521.0	2551.3	2594.8	2634.2	2621.1
37.5°	2414.9	2452.3	2501.8	2536.1	2527.1
40°	2315.9	2350.2	2409.9	2432.1	2430.0
42.5°	2215.8	2244.2	2306.8	2332.0	2328.0
45°	2093.6	2131.0	2202.7	2227.0	2229.0
47.5°	1985.5	2016.8	2093.6	2112.8	2116.8
50°	1861.2	1900.6	1977.4	2000.6	2003.7
52.5°	1738.9	1781.3	1860.2	1876.3	1879.4
55°	1614.6	1653.0	1738.9	1751.1	1746.0
57.5°	1484.3	1530.8	1609.6	1615.6	1620.7
60°	1356.9	1397.4	1474.2	1482.3	1471.2
62.5°	1218.6	1260.0	1338.8	1340.8	1331.7
65°	1087.2	1118.5	1198.3	1196.3	1190.2
67.5°	949.8	988.1	1046.8	1048.8	1043.8
70°	821.4	847.7	904.3	905.3	893.2
72.5°	683.1	711.3	756.8	750.7	747.7
75°	548.7	570.9	606.3	610.3	600.2
77.5°	425.4	441.6	467.8	464.8	453.7
80°	299.1	312.2	331.4	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)