

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: P489006

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-40-120-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: P489006
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-24-2-INS-A12125-LD4-5HI-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

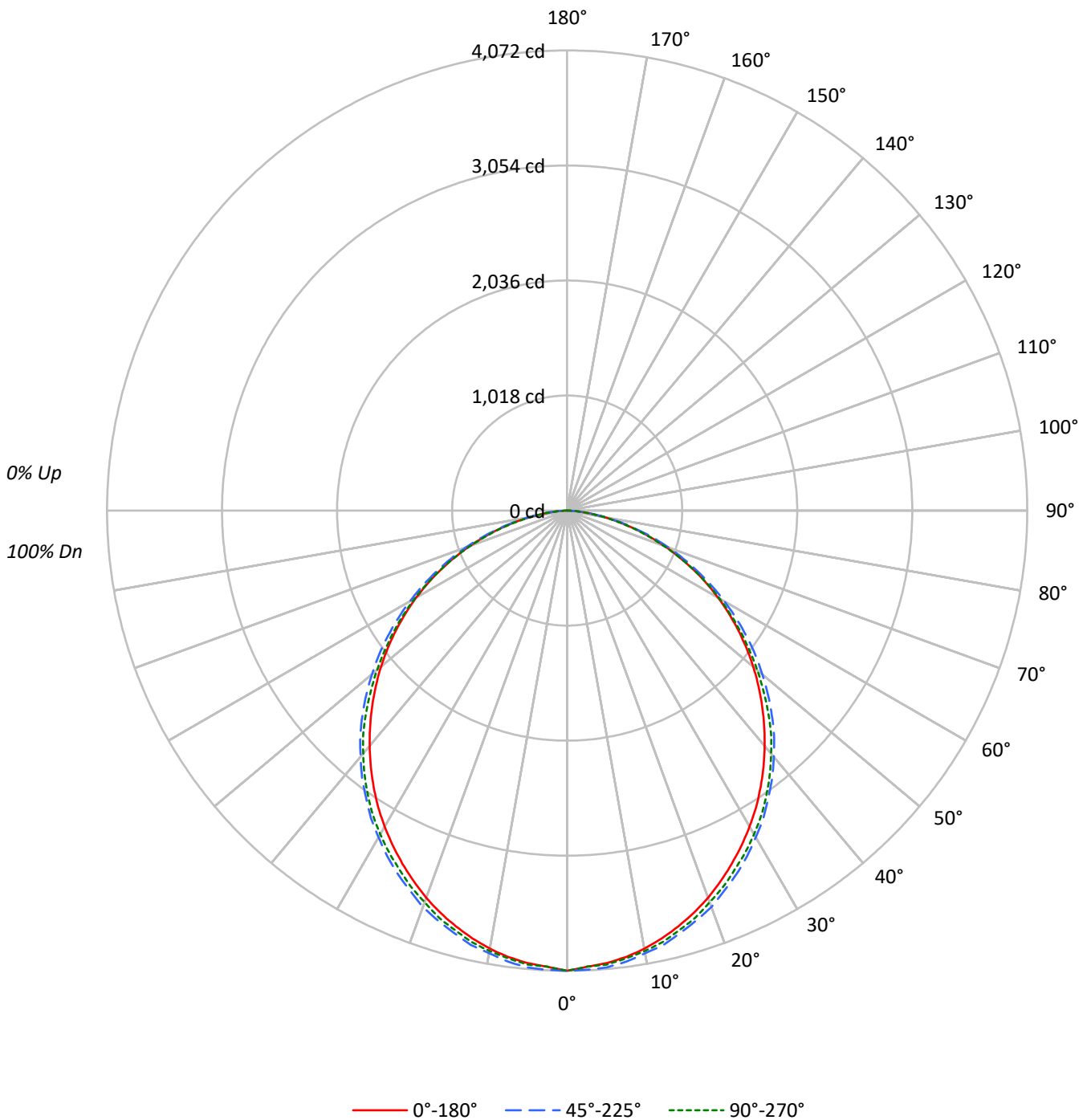
Lumens per Lamp: N/A
Luminaire Lumens: 10706.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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°	10958	10958	10958
5°	10857	10959	10891
10°	10758	10867	10814
15°	10609	10780	10704
20°	10442	10690	10561
25°	10238	10535	10415
30°	10032	10372	10277
35°	9806	10194	10100
40°	9551	9990	9864
45°	9283	9751	9567
50°	9004	9439	9192
55°	8677	9083	8804
60°	8308	8652	8385
65°	7829	8129	7834
70°	7204	7494	7124
75°	6343	6630	6247
80°	5154	5379	5095
85°	3591	3825	3733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	3.6
10°-20°	1086.8	10.2
20°-30°	1621.0	15.1
30°-40°	1920.9	17.9
40°-50°	1943.6	18.2
50°-60°	1697.5	15.9
60°-70°	1240.4	11.6
70°-80°	660.0	6.2
80°-90°	152.6	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°	3091.3	28.9
0°-40°	5012.2	46.8
0°-60°	8653.3	80.8
0°-90°	10706.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10706.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4072	4072	4072	4072	4072	
5°	4019	4027	4057	4066	4032	381
15°	3808	3833	3870	3893	3842	1074
25°	3448	3491	3548	3562	3508	1589
35°	2985	3032	3103	3125	3074	1867
45°	2439	2482	2562	2564	2514	1882
55°	1850	1887	1936	1908	1877	1653
65°	1230	1255	1277	1251	1230	1217
75°	610	624	638	614	601	649
85°	116	118	124	125	121	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4072.3	4072.3	4072.3	4072.3	4072.3
2.5°	4040.5	4053.6	4067.2	4073.1	4040.0
5°	4019.3	4026.9	4057.0	4066.4	4032.0
7.5°	3984.5	3995.9	4025.2	4029.4	3996.3
10°	3936.9	3957.3	3976.8	3998.0	3957.7
12.5°	3876.3	3903.9	3936.9	3940.8	3910.2
15°	3808.0	3833.4	3869.5	3892.8	3842.3
17.5°	3731.6	3756.2	3802.9	3807.1	3776.6
20°	3646.3	3676.9	3732.9	3742.6	3687.9
22.5°	3549.6	3590.7	3637.4	3646.7	3606.4
25°	3448.2	3490.6	3548.3	3561.5	3507.6
27.5°	3342.1	3382.8	3447.7	3457.1	3411.7
30°	3228.4	3266.6	3337.9	3353.6	3307.3
32.5°	3113.0	3151.2	3230.1	3243.2	3198.3
35°	2984.9	3031.5	3103.2	3124.9	3074.4
37.5°	2854.2	2899.6	2981.0	3000.5	2946.2
40°	2718.8	2763.8	2844.0	2860.1	2807.9
42.5°	2580.5	2625.5	2711.2	2713.7	2670.5
45°	2439.2	2482.5	2562.3	2564.4	2513.9
47.5°	2295.8	2339.5	2410.8	2402.7	2355.2
50°	2150.7	2192.3	2254.7	2238.5	2195.7
52.5°	2000.5	2040.8	2099.8	2073.5	2033.2
55°	1849.5	1886.8	1936.0	1908.0	1876.6
57.5°	1697.1	1734.9	1772.7	1744.2	1717.1
60°	1543.6	1576.6	1607.6	1578.8	1558.0
62.5°	1387.4	1415.8	1442.6	1415.0	1395.5
65°	1229.6	1254.6	1276.7	1251.2	1230.4
67.5°	1072.6	1093.8	1114.2	1087.9	1066.2
70°	915.6	933.9	952.5	925.4	905.4
72.5°	760.7	776.9	793.4	767.1	749.7
75°	610.1	624.1	637.7	614.4	600.8
77.5°	466.3	478.2	487.5	472.7	459.5
80°	332.6	341.6	347.1	341.1	328.8
82.5°	213.8	220.2	223.2	222.8	214.7
85°	116.3	118.4	123.9	125.2	120.9
87.5°	45.0	47.9	49.2	53.0	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)