

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: P488971

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-40-120-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: P488971
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-LD4-4HI-40-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

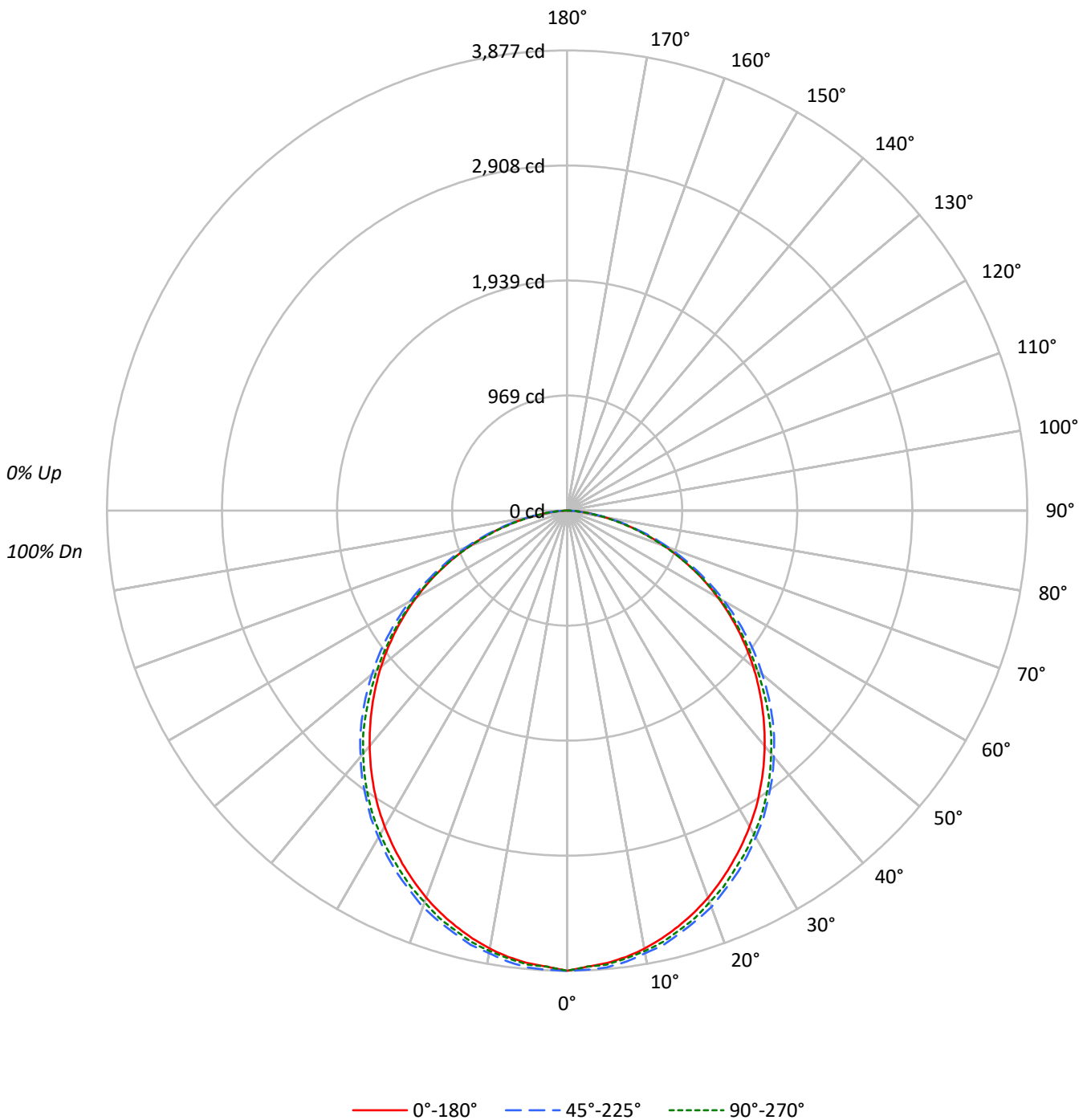
Lumens per Lamp: N/A
Luminaire Lumens: 10193.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	10434	10434	10434
5°	10337	10434	10370
10°	10243	10346	10297
15°	10101	10264	10192
20°	9942	10178	10055
25°	9748	10031	9916
30°	9551	9875	9785
35°	9336	9706	9616
40°	9094	9512	9392
45°	8838	9284	9109
50°	8573	8987	8752
55°	8261	8648	8383
60°	7909	8238	7984
65°	7454	7740	7459
70°	6859	7135	6783
75°	6040	6313	5947
80°	4908	5120	4852
85°	3418	3643	3554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.2	3.6
10°-20°	1034.8	10.2
20°-30°	1543.4	15.1
30°-40°	1828.9	17.9
40°-50°	1850.6	18.2
50°-60°	1616.2	15.9
60°-70°	1181.0	11.6
70°-80°	628.4	6.2
80°-90°	145.2	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°	2943.3	28.9
0°-40°	4772.2	46.8
0°-60°	8239.0	80.8
0°-90°	10193.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10193.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3877	3877	3877	3877	3877	
5°	3827	3834	3863	3872	3839	363
15°	3626	3650	3684	3706	3658	1022
25°	3283	3324	3378	3391	3340	1513
35°	2842	2886	2955	2975	2927	1777
45°	2322	2364	2440	2442	2394	1792
55°	1761	1796	1843	1817	1787	1574
65°	1171	1194	1216	1191	1172	1158
75°	581	594	607	585	572	618
85°	111	113	118	119	115	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3877.3	3877.3	3877.3	3877.3	3877.3
2.5°	3847.0	3859.5	3872.5	3878.1	3846.6
5°	3826.8	3834.1	3862.8	3871.7	3838.9
7.5°	3793.7	3804.6	3832.5	3836.5	3805.0
10°	3748.5	3767.8	3786.4	3806.6	3768.2
12.5°	3690.7	3716.9	3748.5	3752.1	3723.0
15°	3625.6	3649.9	3684.2	3706.4	3658.4
17.5°	3552.9	3576.4	3620.8	3624.8	3595.8
20°	3471.7	3500.8	3554.1	3563.4	3511.3
22.5°	3379.6	3418.8	3463.2	3472.1	3433.8
25°	3283.1	3323.5	3378.4	3390.9	3339.6
27.5°	3182.1	3220.9	3282.7	3291.6	3248.3
30°	3073.8	3110.2	3178.0	3193.0	3149.0
32.5°	2963.9	3000.3	3075.4	3088.0	3045.1
35°	2841.9	2886.4	2954.6	2975.3	2927.2
37.5°	2717.5	2760.7	2838.3	2856.9	2805.2
40°	2588.7	2631.5	2707.8	2723.2	2673.5
42.5°	2457.0	2499.8	2581.4	2583.8	2542.6
45°	2322.4	2363.6	2439.6	2441.6	2393.5
47.5°	2185.9	2227.5	2295.4	2287.7	2242.4
50°	2047.7	2087.3	2146.7	2131.4	2090.6
52.5°	1904.7	1943.1	1999.3	1974.2	1935.8
55°	1760.9	1796.5	1843.3	1816.7	1786.8
57.5°	1615.9	1651.8	1687.8	1660.7	1634.9
60°	1469.6	1501.2	1530.6	1503.2	1483.4
62.5°	1321.0	1348.1	1373.5	1347.2	1328.7
65°	1170.7	1194.5	1215.6	1191.3	1171.5
67.5°	1021.2	1041.4	1060.8	1035.8	1015.2
70°	871.8	889.1	906.9	881.1	862.1
72.5°	724.3	739.7	755.4	730.4	713.8
75°	580.9	594.2	607.2	585.0	572.0
77.5°	444.0	455.3	464.2	450.0	437.5
80°	316.7	325.2	330.4	324.8	313.1
82.5°	203.6	209.7	212.5	212.1	204.4
85°	110.7	112.7	118.0	119.2	115.1
87.5°	42.8	45.6	46.9	50.5	46.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)