

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: P488859

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-30-120-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: P488859
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-LD4-1HI-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

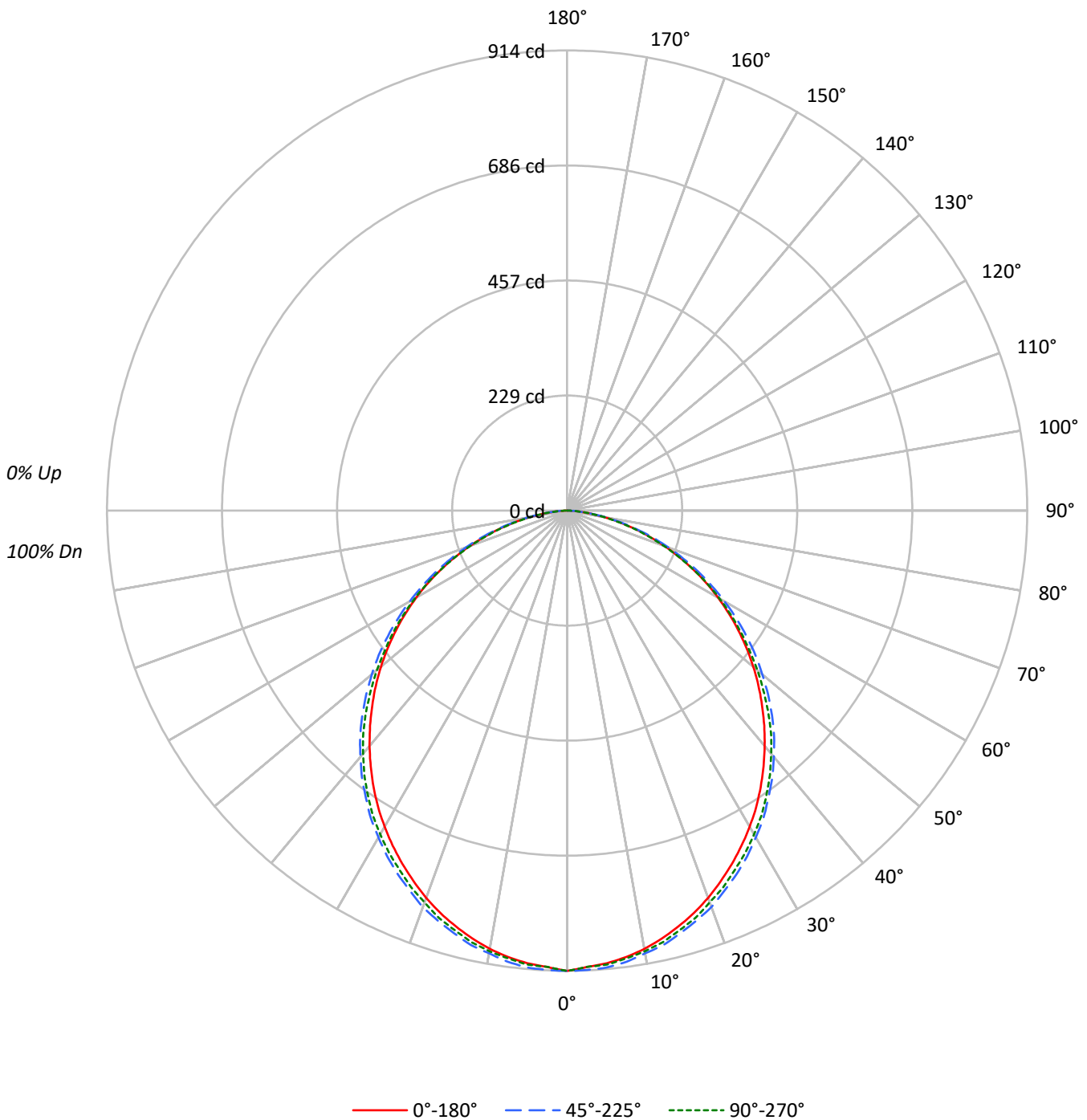
Lumens per Lamp: N/A
Luminaire Lumens: 2404.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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

TEST NUMBER: P488859

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1HI-30-120-EDD

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°	2461	2461	2461
5°	2438	2461	2445
10°	2416	2440	2428
15°	2382	2421	2404
20°	2344	2400	2371
25°	2299	2366	2339
30°	2252	2329	2307
35°	2202	2289	2268
40°	2145	2243	2215
45°	2084	2189	2148
50°	2022	2120	2064
55°	1948	2039	1977
60°	1865	1943	1883
65°	1758	1826	1759
70°	1618	1683	1600
75°	1424	1489	1403
80°	1158	1207	1144
85°	806	858	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.6
10°-20°	244.0	10.2
20°-30°	364.0	15.1
30°-40°	431.3	17.9
40°-50°	436.4	18.2
50°-60°	381.2	15.9
60°-70°	278.5	11.6
70°-80°	148.2	6.2
80°-90°	34.3	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°	694.1	28.9
0°-40°	1125.5	46.8
0°-60°	1943.0	80.8
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	902	904	911	913	905	86
15°	855	861	869	874	863	241
25°	774	784	797	800	788	357
35°	670	681	697	702	690	419
45°	548	557	575	576	564	423
55°	415	424	435	428	421	371
65°	276	282	287	281	276	273
75°	137	140	143	138	135	146
85°	26	27	28	28	27	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.4	914.4	914.4	914.4	914.4
2.5°	907.3	910.2	913.3	914.6	907.2
5°	902.5	904.2	911.0	913.1	905.3
7.5°	894.7	897.2	903.8	904.8	897.3
10°	884.0	888.6	893.0	897.7	888.7
12.5°	870.4	876.6	884.0	884.9	878.0
15°	855.0	860.8	868.9	874.1	862.8
17.5°	837.9	843.4	853.9	854.9	848.0
20°	818.7	825.6	838.2	840.4	828.1
22.5°	797.0	806.3	816.7	818.8	809.8
25°	774.3	783.8	796.7	799.7	787.6
27.5°	750.4	759.6	774.2	776.3	766.1
30°	724.9	733.5	749.5	753.0	742.6
32.5°	699.0	707.6	725.3	728.2	718.1
35°	670.2	680.7	696.8	701.7	690.3
37.5°	640.9	651.1	669.4	673.7	661.6
40°	610.5	620.6	638.6	642.2	630.5
42.5°	579.4	589.5	608.8	609.3	599.6
45°	547.7	557.4	575.3	575.8	564.5
47.5°	515.5	525.3	541.3	539.5	528.8
50°	482.9	492.3	506.3	502.6	493.0
52.5°	449.2	458.2	471.5	465.6	456.5
55°	415.3	423.7	434.7	428.4	421.4
57.5°	381.1	389.6	398.0	391.7	385.6
60°	346.6	354.0	361.0	354.5	349.8
62.5°	311.5	317.9	323.9	317.7	313.3
65°	276.1	281.7	286.7	280.9	276.3
67.5°	240.8	245.6	250.2	244.3	239.4
70°	205.6	209.7	213.9	207.8	203.3
72.5°	170.8	174.4	178.2	172.2	168.3
75°	137.0	140.1	143.2	138.0	134.9
77.5°	104.7	107.4	109.5	106.1	103.2
80°	74.7	76.7	77.9	76.6	73.8
82.5°	48.0	49.4	50.1	50.0	48.2
85°	26.1	26.6	27.8	28.1	27.2
87.5°	10.1	10.8	11.1	11.9	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)