

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: P489530

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-30-120-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: P489530
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-24-4-INS-A12125-LD4-4STD-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

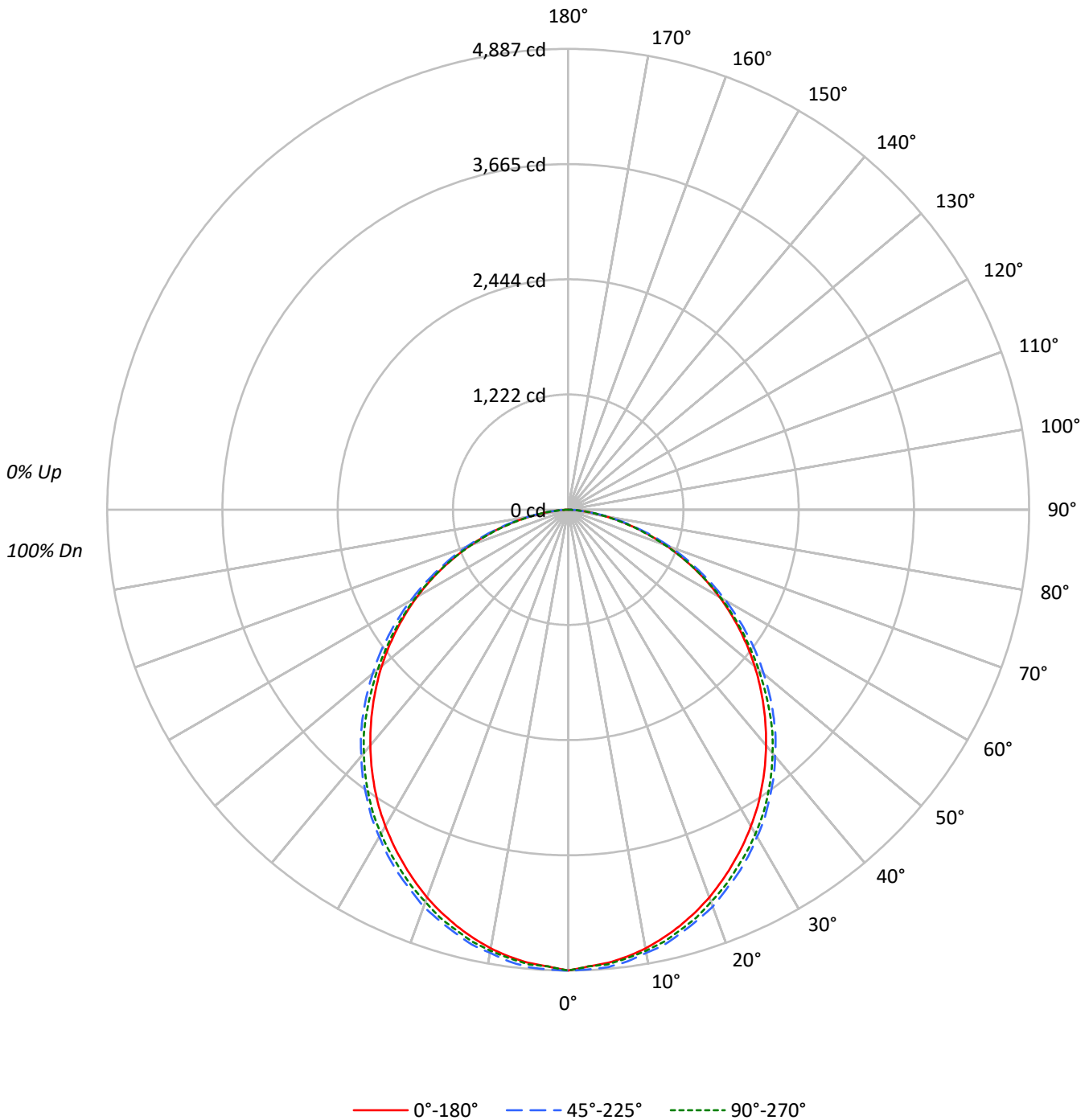
Lumens per Lamp: N/A
Luminaire Lumens: 12848.5 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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	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°	6576	6576	6576
5°	6515	6576	6535
10°	6455	6520	6489
15°	6366	6468	6423
20°	6266	6414	6337
25°	6143	6322	6249
30°	6019	6223	6167
35°	5884	6117	6060
40°	5731	5995	5919
45°	5570	5851	5741
50°	5403	5664	5516
55°	5206	5450	5283
60°	4985	5192	5031
65°	4698	4878	4701
70°	4323	4497	4275
75°	3806	3978	3748
80°	3093	3227	3058
85°	2154	2296	2240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	3.6
10°-20°	1304.3	10.2
20°-30°	1945.3	15.1
30°-40°	2305.2	17.9
40°-50°	2332.5	18.2
50°-60°	2037.1	15.9
60°-70°	1488.6	11.6
70°-80°	792.1	6.2
80°-90°	183.1	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°	3709.9	28.9
0°-40°	6015.1	46.8
0°-60°	10384.7	80.8
0°-90°	12848.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12848.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4887	4887	4887	4887	4887	
5°	4824	4833	4869	4880	4839	457
15°	4570	4600	4644	4672	4611	1288
25°	4138	4189	4258	4274	4209	1906
35°	3582	3638	3724	3750	3690	2240
45°	2927	2979	3075	3078	3017	2258
55°	2220	2264	2323	2290	2252	1984
65°	1476	1506	1532	1502	1477	1460
75°	732	749	765	737	721	778
85°	140	142	149	150	145	177
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4887.1	4887.1	4887.1	4887.1	4887.1
2.5°	4848.9	4864.7	4881.0	4888.1	4848.4
5°	4823.5	4832.6	4868.8	4880.0	4838.7
7.5°	4781.7	4795.5	4830.6	4835.7	4796.0
10°	4724.7	4749.1	4772.5	4798.0	4749.6
12.5°	4651.9	4685.0	4724.7	4729.3	4692.6
15°	4569.9	4600.4	4643.7	4671.7	4611.1
17.5°	4478.2	4507.8	4563.8	4568.9	4532.2
20°	4375.9	4412.6	4479.8	4491.5	4425.8
22.5°	4259.8	4309.2	4365.2	4376.4	4328.0
25°	4138.1	4189.0	4258.3	4274.1	4209.4
27.5°	4010.8	4059.7	4137.6	4148.8	4094.3
30°	3874.4	3920.2	4005.7	4024.6	3969.1
32.5°	3735.9	3781.7	3876.4	3892.2	3838.2
35°	3582.1	3638.1	3724.1	3750.1	3689.5
37.5°	3425.3	3479.7	3577.5	3600.9	3535.7
40°	3262.8	3316.8	3413.0	3432.4	3369.8
42.5°	3096.8	3150.8	3253.7	3256.7	3204.8
45°	2927.3	2979.2	3074.9	3077.5	3016.9
47.5°	2755.2	2807.6	2893.2	2883.5	2826.5
50°	2581.0	2630.9	2705.8	2686.4	2635.0
52.5°	2400.8	2449.2	2519.9	2488.4	2440.0
55°	2219.5	2264.3	2323.4	2289.8	2252.1
57.5°	2036.7	2082.0	2127.4	2093.2	2060.7
60°	1852.4	1892.1	1929.3	1894.7	1869.7
62.5°	1665.0	1699.1	1731.2	1698.1	1674.7
65°	1475.6	1505.6	1532.1	1501.6	1476.6
67.5°	1287.2	1312.7	1337.1	1305.5	1279.6
70°	1098.8	1120.7	1143.1	1110.5	1086.6
72.5°	913.0	932.3	952.2	920.6	899.7
75°	732.2	749.0	765.3	737.3	721.0
77.5°	559.6	573.8	585.0	567.2	551.4
80°	399.2	409.9	416.5	409.4	394.6
82.5°	256.6	264.3	267.8	267.3	257.6
85°	139.5	142.1	148.7	150.2	145.1
87.5°	54.0	57.5	59.1	63.6	58.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)