

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: P489417

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-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: P489417
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-LD4-1LO-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

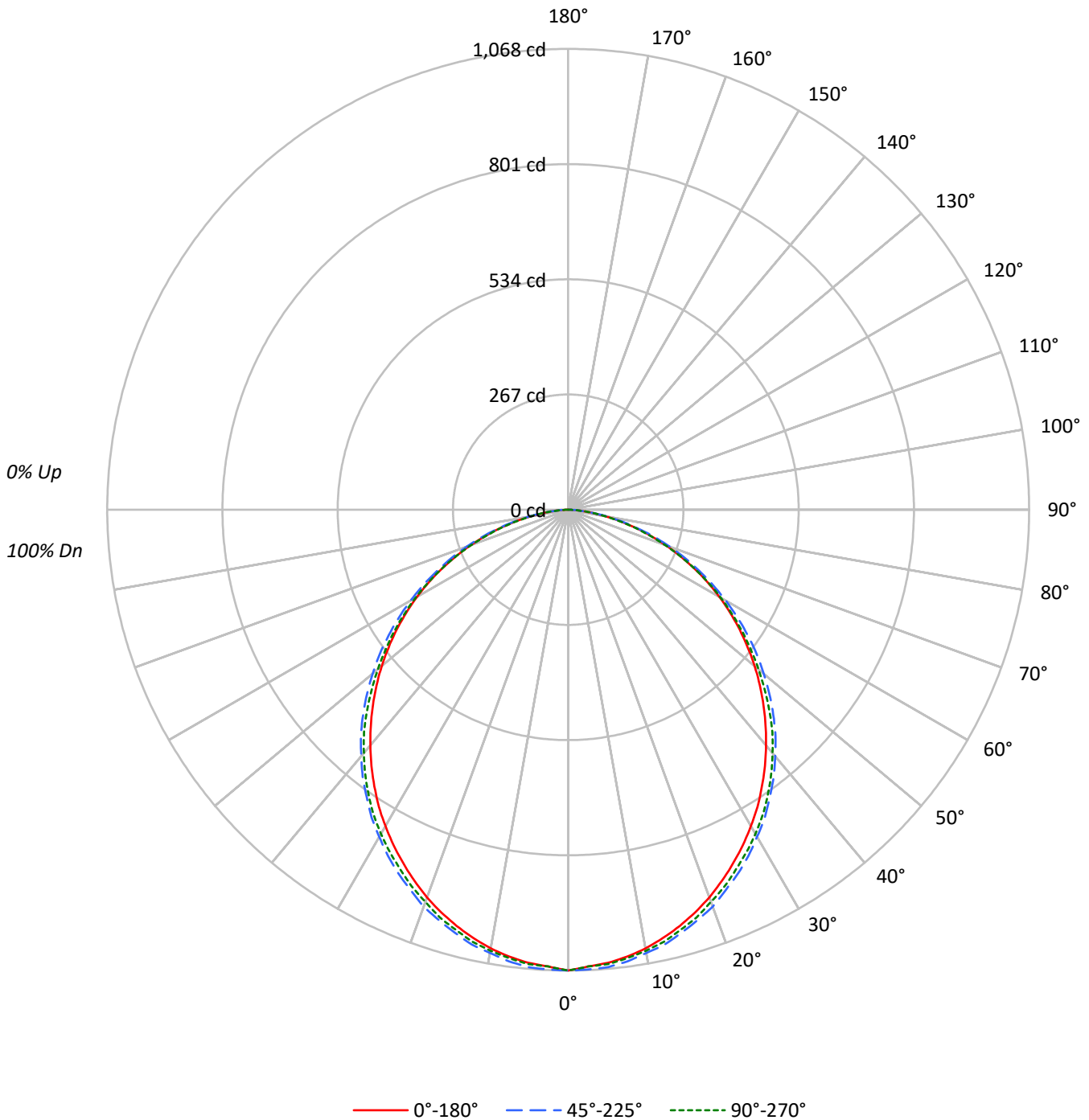
Lumens per Lamp: N/A
Luminaire Lumens: 2807.8 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	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°	1437	1437	1437
5°	1424	1437	1428
10°	1411	1425	1418
15°	1391	1414	1404
20°	1369	1402	1385
25°	1343	1382	1366
30°	1315	1360	1348
35°	1286	1337	1324
40°	1252	1310	1293
45°	1217	1279	1255
50°	1181	1238	1205
55°	1138	1191	1155
60°	1089	1135	1100
65°	1027	1066	1027
70°	945	983	934
75°	832	869	819
80°	676	705	668
85°	471	502	489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.6
10°-20°	285.0	10.2
20°-30°	425.1	15.1
30°-40°	503.8	17.9
40°-50°	509.7	18.2
50°-60°	445.2	15.9
60°-70°	325.3	11.6
70°-80°	173.1	6.2
80°-90°	40.0	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°	810.7	28.9
0°-40°	1314.5	46.8
0°-60°	2269.4	80.8
0°-90°	2807.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1054	1056	1064	1066	1057	100
15°	999	1005	1015	1021	1008	282
25°	904	915	931	934	920	417
35°	783	795	814	820	806	490
45°	640	651	672	672	659	494
55°	485	495	508	500	492	434
65°	322	329	335	328	323	319
75°	160	164	167	161	158	170
85°	30	31	32	33	32	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.0	1068.0	1068.0	1068.0	1068.0
2.5°	1059.6	1063.1	1066.7	1068.2	1059.5
5°	1054.1	1056.1	1064.0	1066.4	1057.4
7.5°	1045.0	1048.0	1055.6	1056.7	1048.1
10°	1032.5	1037.8	1043.0	1048.5	1037.9
12.5°	1016.6	1023.8	1032.5	1033.5	1025.5
15°	998.7	1005.3	1014.8	1020.9	1007.7
17.5°	978.6	985.1	997.3	998.4	990.4
20°	956.3	964.3	979.0	981.5	967.2
22.5°	930.9	941.7	953.9	956.4	945.8
25°	904.3	915.4	930.6	934.0	919.9
27.5°	876.5	887.2	904.2	906.6	894.7
30°	846.7	856.7	875.4	879.5	867.4
32.5°	816.4	826.4	847.1	850.6	838.8
35°	782.8	795.0	813.8	819.5	806.3
37.5°	748.5	760.4	781.8	786.9	772.7
40°	713.0	724.8	745.9	750.1	736.4
42.5°	676.8	688.6	711.0	711.7	700.3
45°	639.7	651.1	672.0	672.5	659.3
47.5°	602.1	613.6	632.2	630.1	617.7
50°	564.0	574.9	591.3	587.1	575.8
52.5°	524.6	535.2	550.7	543.8	533.2
55°	485.0	494.8	507.7	500.4	492.2
57.5°	445.1	455.0	464.9	457.4	450.3
60°	404.8	413.5	421.6	414.0	408.6
62.5°	363.9	371.3	378.3	371.1	366.0
65°	322.5	329.0	334.8	328.1	322.7
67.5°	281.3	286.9	292.2	285.3	279.6
70°	240.1	244.9	249.8	242.7	237.5
72.5°	199.5	203.7	208.1	201.2	196.6
75°	160.0	163.7	167.2	161.1	157.6
77.5°	122.3	125.4	127.9	124.0	120.5
80°	87.2	89.6	91.0	89.5	86.2
82.5°	56.1	57.8	58.5	58.4	56.3
85°	30.5	31.0	32.5	32.8	31.7
87.5°	11.8	12.6	12.9	13.9	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)