

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: P489471

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-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: P489471
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-LD4-3HI-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

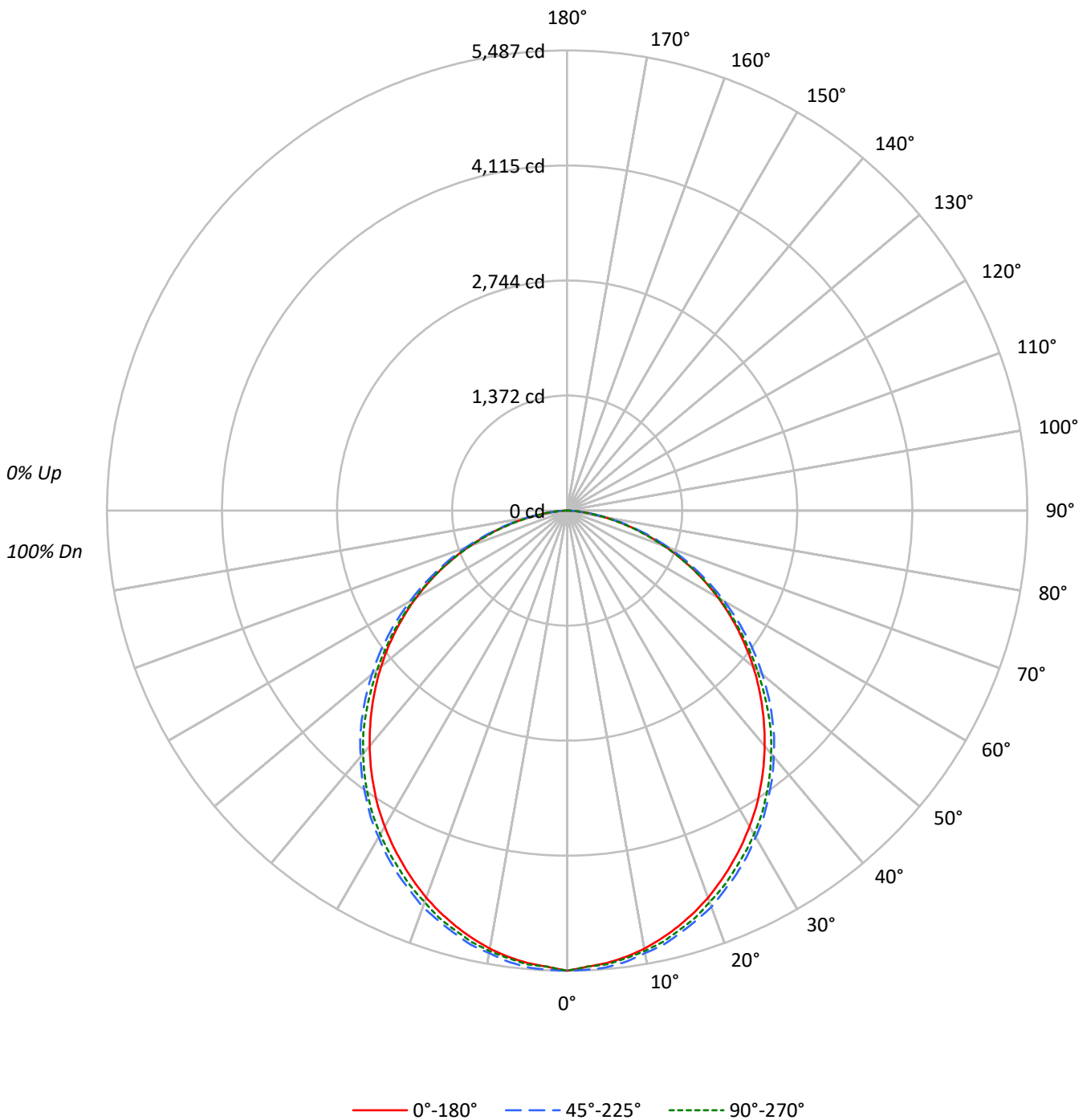
Lumens per Lamp: N/A
Luminaire Lumens: 14424.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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

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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°	7382	7382	7382
5°	7314	7383	7337
10°	7247	7320	7285
15°	7147	7262	7211
20°	7034	7201	7114
25°	6897	7097	7016
30°	6758	6987	6923
35°	6605	6867	6804
40°	6434	6730	6645
45°	6253	6569	6445
50°	6065	6359	6192
55°	5845	6119	5931
60°	5596	5829	5649
65°	5274	5476	5278
70°	4853	5048	4799
75°	4273	4467	4208
80°	3473	3623	3433
85°	2418	2577	2515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.7	3.6
10°-20°	1464.3	10.2
20°-30°	2184.0	15.1
30°-40°	2588.0	17.9
40°-50°	2618.7	18.2
50°-60°	2287.0	15.9
60°-70°	1671.3	11.6
70°-80°	889.2	6.2
80°-90°	205.5	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°	4165.0	28.9
0°-40°	6753.0	46.8
0°-60°	11658.7	80.8
0°-90°	14424.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14424.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5487	5487	5487	5487	5487	
5°	5415	5426	5466	5479	5432	513
15°	5130	5165	5213	5245	5177	1446
25°	4646	4703	4781	4798	4726	2140
35°	4022	4084	4181	4210	4142	2515
45°	3286	3345	3452	3455	3387	2535
55°	2492	2542	2608	2571	2528	2227
65°	1657	1690	1720	1686	1658	1639
75°	822	841	859	828	809	874
85°	157	160	167	169	163	198
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5486.6	5486.6	5486.6	5486.6	5486.6
2.5°	5443.8	5461.5	5479.8	5487.8	5443.2
5°	5415.2	5425.5	5466.1	5478.6	5432.3
7.5°	5368.3	5383.7	5423.2	5428.9	5384.3
10°	5304.3	5331.7	5358.0	5386.6	5332.3
12.5°	5222.5	5259.7	5304.3	5309.4	5268.3
15°	5130.5	5164.8	5213.4	5244.8	5176.8
17.5°	5027.6	5060.8	5123.6	5129.4	5088.2
20°	4912.7	4953.9	5029.3	5042.5	4968.7
22.5°	4782.4	4837.8	4900.7	4913.3	4859.0
25°	4645.8	4702.9	4780.7	4798.4	4725.8
27.5°	4502.8	4557.7	4645.2	4657.8	4596.6
30°	4349.6	4401.1	4497.1	4518.3	4456.0
32.5°	4194.2	4245.6	4351.9	4369.6	4309.1
35°	4021.5	4084.4	4181.0	4210.2	4142.1
37.5°	3845.5	3906.6	4016.4	4042.7	3969.5
40°	3663.1	3723.7	3831.7	3853.5	3783.1
42.5°	3476.7	3537.3	3652.8	3656.2	3597.9
45°	3286.4	3344.7	3452.2	3455.0	3387.0
47.5°	3093.2	3152.0	3248.1	3237.2	3173.2
50°	2897.7	2953.7	3037.7	3016.0	2958.3
52.5°	2695.3	2749.6	2829.1	2793.6	2739.3
55°	2491.8	2542.1	2608.4	2570.7	2528.4
57.5°	2286.6	2337.5	2388.3	2350.0	2313.4
60°	2079.6	2124.2	2166.0	2127.1	2099.1
62.5°	1869.3	1907.6	1943.6	1906.4	1880.1
65°	1656.6	1690.4	1720.1	1685.8	1657.8
67.5°	1445.1	1473.7	1501.1	1465.7	1436.5
70°	1233.6	1258.2	1283.3	1246.8	1219.9
72.5°	1025.0	1046.7	1069.0	1033.5	1010.1
75°	822.0	840.9	859.2	827.7	809.4
77.5°	628.2	644.2	656.8	636.8	619.1
80°	448.2	460.2	467.6	459.6	443.0
82.5°	288.1	296.7	300.7	300.1	289.3
85°	156.6	159.5	166.9	168.6	162.9
87.5°	60.6	64.6	66.3	71.5	65.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)