

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: P489440

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-50-120-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: P489440
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-LD4-2HI-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

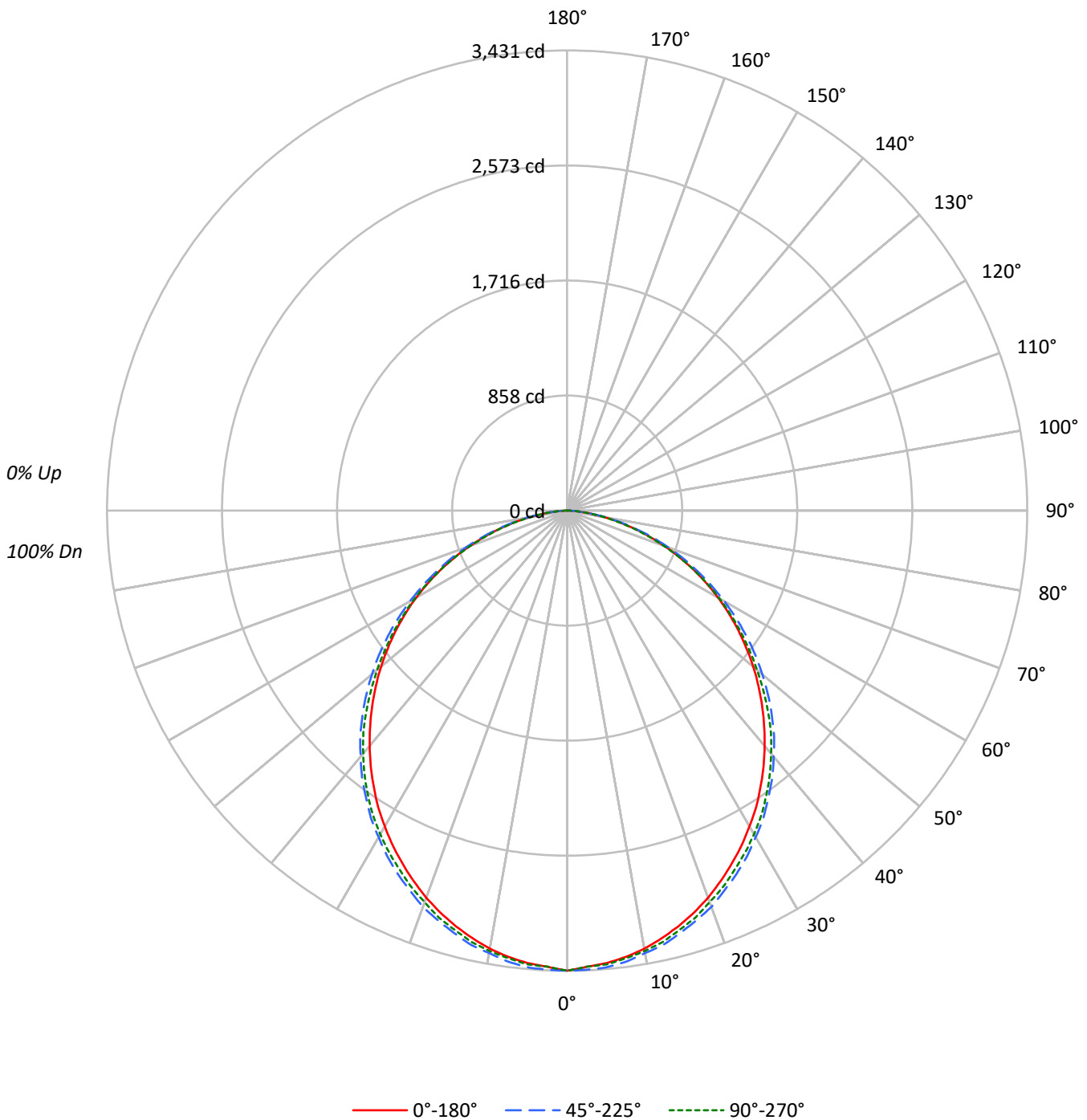
Lumens per Lamp: N/A
Luminaire Lumens: 9019.4 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4616	4616	4616
5°	4573	4616	4588
10°	4531	4577	4555
15°	4469	4541	4509
20°	4398	4503	4448
25°	4313	4438	4387
30°	4225	4369	4329
35°	4130	4294	4254
40°	4023	4208	4155
45°	3910	4107	4030
50°	3792	3976	3872
55°	3655	3826	3708
60°	3499	3644	3532
65°	3298	3424	3300
70°	3034	3157	3001
75°	2672	2793	2631
80°	2171	2266	2146
85°	1511	1612	1573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	3.6
10°-20°	915.6	10.2
20°-30°	1365.6	15.1
30°-40°	1618.2	17.9
40°-50°	1637.4	18.2
50°-60°	1430.0	15.9
60°-70°	1045.0	11.6
70°-80°	556.0	6.2
80°-90°	128.5	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°	2604.3	28.9
0°-40°	4222.5	46.8
0°-60°	7289.9	80.8
0°-90°	9019.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9019.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3431	3431	3431	3431	3431	
5°	3386	3392	3418	3426	3397	321
15°	3208	3229	3260	3280	3237	904
25°	2905	2941	2989	3000	2955	1338
35°	2515	2554	2614	2632	2590	1573
45°	2055	2091	2158	2160	2118	1585
55°	1558	1590	1631	1607	1581	1393
65°	1036	1057	1076	1054	1037	1025
75°	514	526	537	518	506	546
85°	98	100	104	105	102	124
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3430.7	3430.7	3430.7	3430.7	3430.7
2.5°	3403.9	3414.9	3426.4	3431.4	3403.5
5°	3386.0	3392.4	3417.8	3425.7	3396.7
7.5°	3356.7	3366.3	3391.0	3394.6	3366.7
10°	3316.6	3333.8	3350.2	3368.1	3334.2
12.5°	3265.5	3288.8	3316.6	3319.9	3294.1
15°	3208.0	3229.4	3259.8	3279.5	3236.9
17.5°	3143.6	3164.4	3203.7	3207.3	3181.5
20°	3071.8	3097.5	3144.7	3152.9	3106.8
22.5°	2990.3	3025.0	3064.3	3072.2	3038.2
25°	2904.9	2940.6	2989.2	3000.3	2954.9
27.5°	2815.5	2849.8	2904.5	2912.4	2874.1
30°	2719.7	2751.9	2811.9	2825.2	2786.2
32.5°	2622.5	2654.7	2721.2	2732.2	2694.3
35°	2514.6	2553.9	2614.3	2632.5	2590.0
37.5°	2404.5	2442.7	2511.3	2527.8	2482.0
40°	2290.4	2328.3	2395.9	2409.5	2365.5
42.5°	2173.9	2211.8	2284.0	2286.2	2249.7
45°	2054.9	2091.4	2158.5	2160.3	2117.8
47.5°	1934.1	1970.9	2030.9	2024.2	1984.1
50°	1811.8	1846.9	1899.4	1885.8	1849.7
52.5°	1685.3	1719.3	1768.9	1746.8	1712.8
55°	1558.1	1589.5	1631.0	1607.4	1580.9
57.5°	1429.7	1461.6	1493.4	1469.4	1446.5
60°	1300.3	1328.2	1354.3	1330.0	1312.5
62.5°	1168.8	1192.8	1215.3	1192.0	1175.6
65°	1035.8	1056.9	1075.5	1054.1	1036.6
67.5°	903.6	921.5	938.6	916.5	898.2
70°	771.3	786.7	802.4	779.6	762.8
72.5°	640.9	654.5	668.4	646.2	631.6
75°	514.0	525.8	537.2	517.6	506.1
77.5°	392.8	402.8	410.7	398.2	387.1
80°	280.2	287.7	292.4	287.4	277.0
82.5°	180.1	185.5	188.0	187.7	180.9
85°	97.9	99.7	104.4	105.4	101.9
87.5°	37.9	40.4	41.5	44.7	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)