

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: P489467

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-20-120-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: P489467
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-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

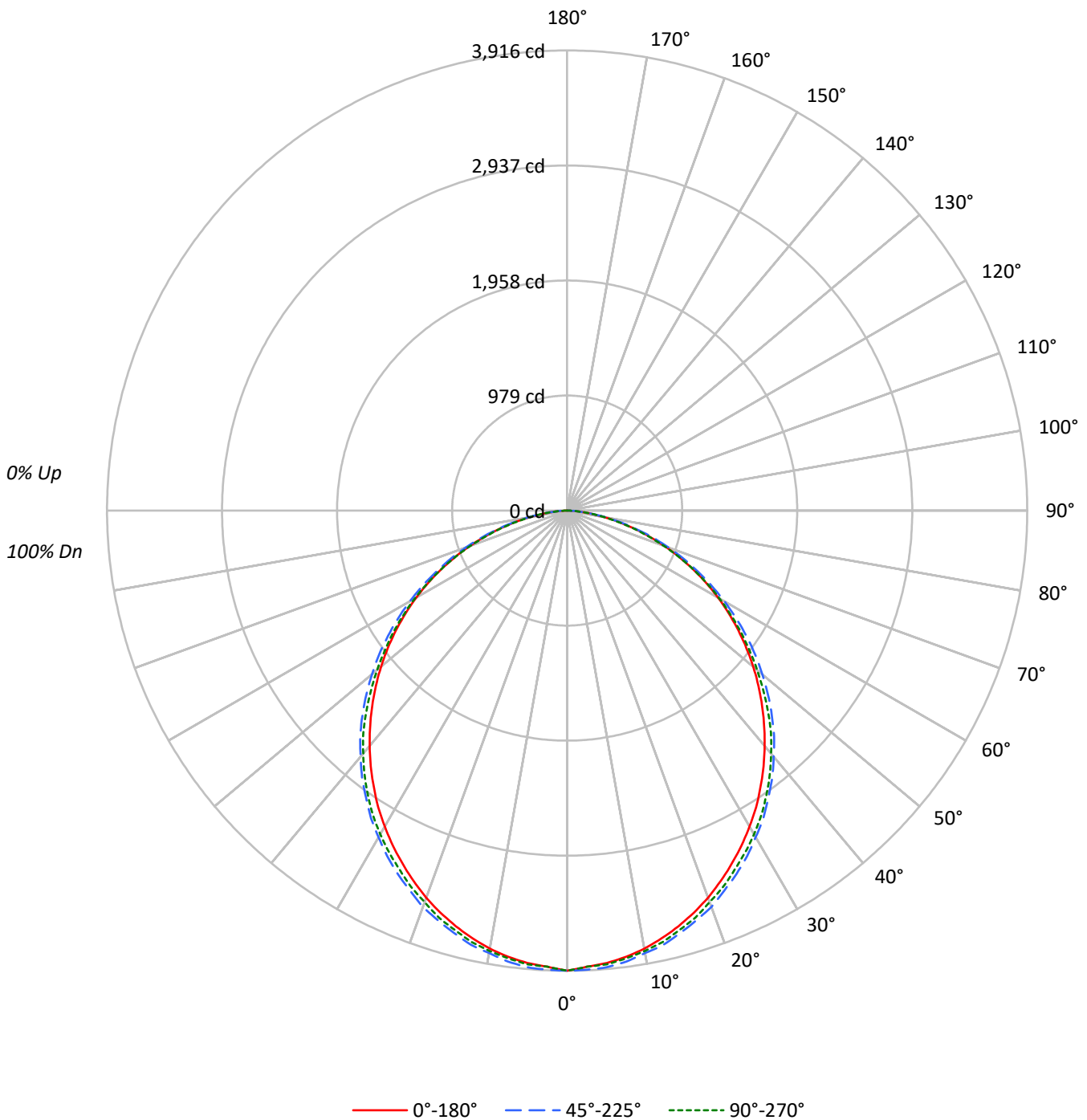
Lumens per Lamp: N/A
Luminaire Lumens: 10295.1 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5269	5269	5269
5°	5220	5269	5237
10°	5172	5225	5200
15°	5101	5183	5147
20°	5020	5140	5078
25°	4922	5065	5007
30°	4823	4987	4941
35°	4714	4901	4856
40°	4592	4803	4742
45°	4463	4688	4600
50°	4329	4538	4419
55°	4172	4367	4233
60°	3994	4160	4031
65°	3764	3908	3767
70°	3463	3603	3425
75°	3050	3188	3003
80°	2479	2586	2450
85°	1726	1839	1795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.8	3.6
10°-20°	1045.1	10.2
20°-30°	1558.7	15.1
30°-40°	1847.1	17.9
40°-50°	1869.0	18.2
50°-60°	1632.3	15.9
60°-70°	1192.8	11.6
70°-80°	634.7	6.2
80°-90°	146.7	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
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0°-30°	2972.6	28.9
0°-40°	4819.7	46.8
0°-60°	8320.9	80.8
0°-90°	10295.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10295.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3916	3916	3916	3916	3916	
5°	3865	3872	3901	3910	3877	366
15°	3662	3686	3721	3743	3695	1032
25°	3316	3356	3412	3425	3373	1528
35°	2870	2915	2984	3005	2956	1795
45°	2346	2387	2464	2466	2417	1809
55°	1778	1814	1862	1835	1804	1590
65°	1182	1206	1228	1203	1183	1170
75°	587	600	613	591	578	624
85°	112	114	119	120	116	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3915.9	3915.9	3915.9	3915.9	3915.9
2.5°	3885.3	3897.9	3911.0	3916.7	3884.9
5°	3864.9	3872.2	3901.2	3910.2	3877.1
7.5°	3831.4	3842.5	3870.6	3874.7	3842.9
10°	3785.7	3805.3	3824.1	3844.5	3805.7
12.5°	3727.4	3753.9	3785.7	3789.4	3760.0
15°	3661.7	3686.2	3720.9	3743.3	3694.8
17.5°	3588.3	3611.9	3656.8	3660.9	3631.5
20°	3506.3	3535.6	3589.5	3598.9	3546.3
22.5°	3413.2	3452.8	3497.7	3506.7	3467.9
25°	3315.7	3356.5	3412.0	3424.7	3372.9
27.5°	3213.7	3252.9	3315.3	3324.3	3280.6
30°	3104.4	3141.1	3209.7	3224.8	3180.3
32.5°	2993.4	3030.1	3106.0	3118.7	3075.4
35°	2870.2	2915.1	2984.0	3004.8	2956.3
37.5°	2744.5	2788.2	2866.5	2885.3	2833.1
40°	2614.4	2657.6	2734.8	2750.3	2700.1
42.5°	2481.4	2524.6	2607.1	2609.5	2567.9
45°	2345.5	2387.2	2463.9	2465.9	2417.3
47.5°	2207.6	2249.7	2318.2	2310.4	2264.8
50°	2068.1	2108.1	2168.1	2152.6	2111.3
52.5°	1923.7	1962.4	2019.1	1993.8	1955.1
55°	1778.4	1814.3	1861.7	1834.7	1804.5
57.5°	1632.0	1668.3	1704.6	1677.2	1651.1
60°	1484.3	1516.1	1545.9	1518.1	1498.1
62.5°	1334.1	1361.5	1387.2	1360.6	1341.9
65°	1182.4	1206.4	1227.6	1203.2	1183.2
67.5°	1031.4	1051.8	1071.4	1046.1	1025.3
70°	880.4	898.0	915.9	889.8	870.7
72.5°	731.5	747.0	762.9	737.6	720.9
75°	586.7	600.2	613.2	590.8	577.7
77.5°	448.4	459.8	468.8	454.5	441.9
80°	319.9	328.4	333.7	328.0	316.2
82.5°	205.6	211.7	214.6	214.2	206.4
85°	111.8	113.8	119.1	120.4	116.3
87.5°	43.2	46.1	47.3	51.0	46.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)