

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: P489494

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-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: P489494
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-LD4-3STD-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

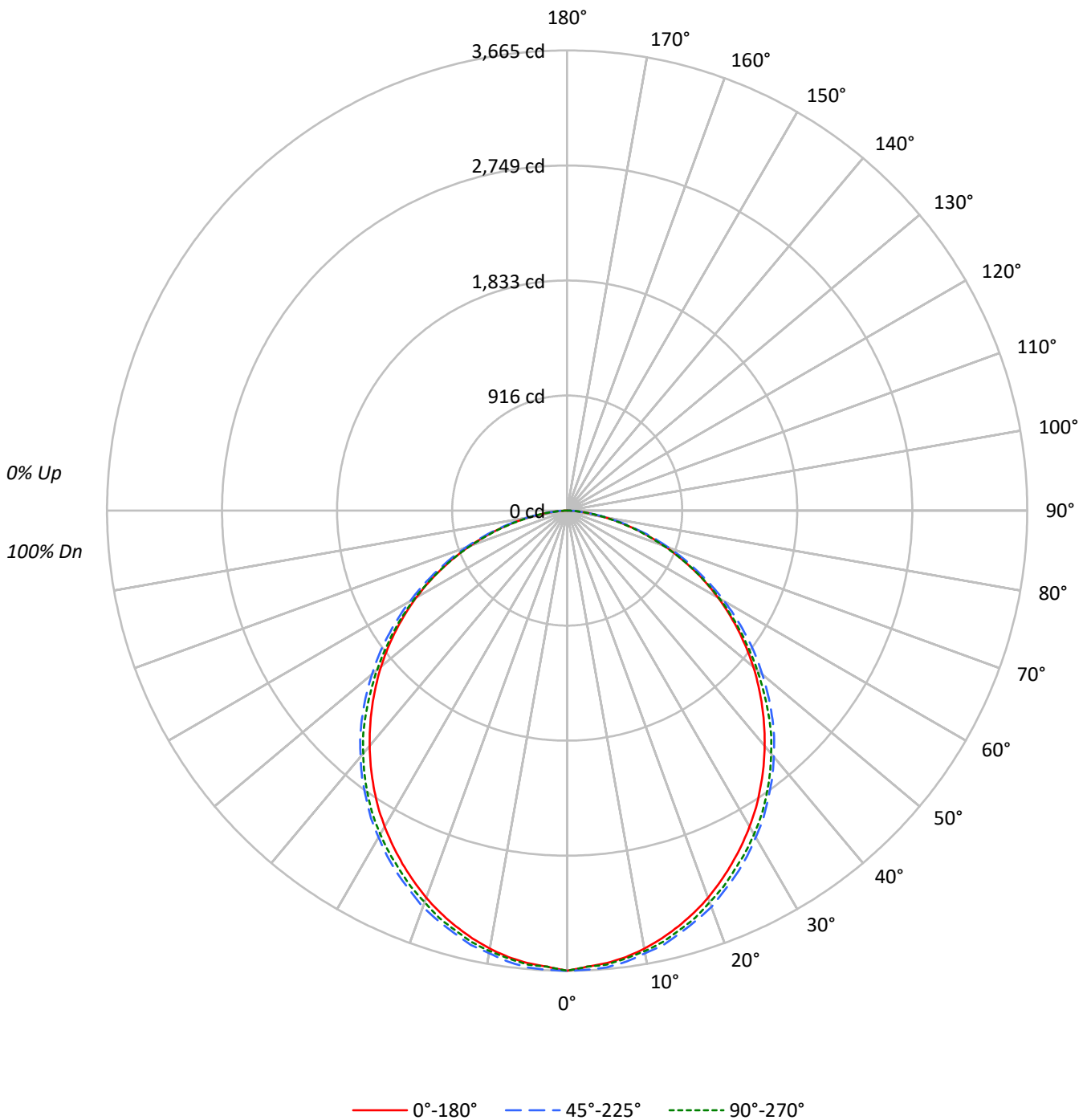
Lumens per Lamp: N/A
Luminaire Lumens: 9636.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	4932	4932	4932
5°	4886	4932	4901
10°	4841	4890	4867
15°	4774	4851	4817
20°	4699	4811	4753
25°	4608	4741	4687
30°	4514	4668	4625
35°	4413	4588	4545
40°	4298	4496	4439
45°	4177	4388	4305
50°	4052	4248	4137
55°	3905	4088	3962
60°	3739	3894	3774
65°	3523	3658	3526
70°	3242	3373	3206
75°	2855	2984	2811
80°	2320	2421	2294
85°	1615	1721	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	3.6
10°-20°	978.2	10.2
20°-30°	1459.0	15.1
30°-40°	1728.9	17.9
40°-50°	1749.4	18.2
50°-60°	1527.8	15.9
60°-70°	1116.5	11.6
70°-80°	594.0	6.2
80°-90°	137.3	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°	2782.4	28.9
0°-40°	4511.3	46.8
0°-60°	7788.5	80.8
0°-90°	9636.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9636.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3665	3665	3665	3665	3665	
5°	3618	3624	3652	3660	3629	343
15°	3427	3450	3483	3504	3458	966
25°	3104	3142	3194	3206	3157	1430
35°	2686	2728	2793	2813	2767	1680
45°	2195	2234	2306	2308	2263	1694
55°	1665	1698	1742	1717	1689	1488
65°	1107	1129	1149	1126	1108	1095
75°	549	562	574	553	541	584
85°	105	106	112	113	109	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3665.3	3665.3	3665.3	3665.3	3665.3
2.5°	3636.7	3648.5	3660.7	3666.1	3636.3
5°	3617.6	3624.4	3651.6	3660.0	3629.0
7.5°	3586.3	3596.6	3622.9	3626.7	3596.9
10°	3543.5	3561.8	3579.4	3598.5	3562.2
12.5°	3488.9	3513.7	3543.5	3546.9	3519.4
15°	3427.4	3450.3	3482.8	3503.8	3458.3
17.5°	3358.7	3380.8	3422.8	3426.6	3399.1
20°	3281.9	3309.4	3359.8	3368.6	3319.3
22.5°	3194.8	3231.9	3273.9	3282.3	3246.0
25°	3103.6	3141.7	3193.7	3205.5	3157.0
27.5°	3008.1	3044.7	3103.2	3111.6	3070.7
30°	2905.7	2940.1	3004.3	3018.4	2976.8
32.5°	2801.9	2836.2	2907.3	2919.1	2878.6
35°	2686.5	2728.5	2793.1	2812.6	2767.1
37.5°	2568.9	2609.8	2683.1	2700.7	2651.8
40°	2447.1	2487.6	2559.8	2574.3	2527.3
42.5°	2322.6	2363.1	2440.2	2442.5	2403.6
45°	2195.4	2234.4	2306.2	2308.1	2262.7
47.5°	2066.4	2105.7	2169.9	2162.6	2119.8
50°	1935.8	1973.2	2029.3	2014.8	1976.2
52.5°	1800.6	1836.9	1889.9	1866.3	1830.0
55°	1664.6	1698.2	1742.5	1717.3	1689.1
57.5°	1527.5	1561.5	1595.5	1569.9	1545.5
60°	1389.3	1419.1	1447.0	1421.0	1402.3
62.5°	1248.8	1274.3	1298.4	1273.6	1256.0
65°	1106.7	1129.2	1149.1	1126.2	1107.5
67.5°	965.4	984.5	1002.8	979.1	959.7
70°	824.1	840.5	857.3	832.9	814.9
72.5°	684.7	699.2	714.1	690.4	674.8
75°	549.1	561.7	574.0	553.0	540.7
77.5°	419.7	430.4	438.8	425.4	413.6
80°	299.4	307.4	312.4	307.0	296.0
82.5°	192.5	198.2	200.9	200.5	193.2
85°	104.6	106.5	111.5	112.7	108.8
87.5°	40.5	43.2	44.3	47.7	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)