

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: P489918

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-40-120-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: P489918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-5LO-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

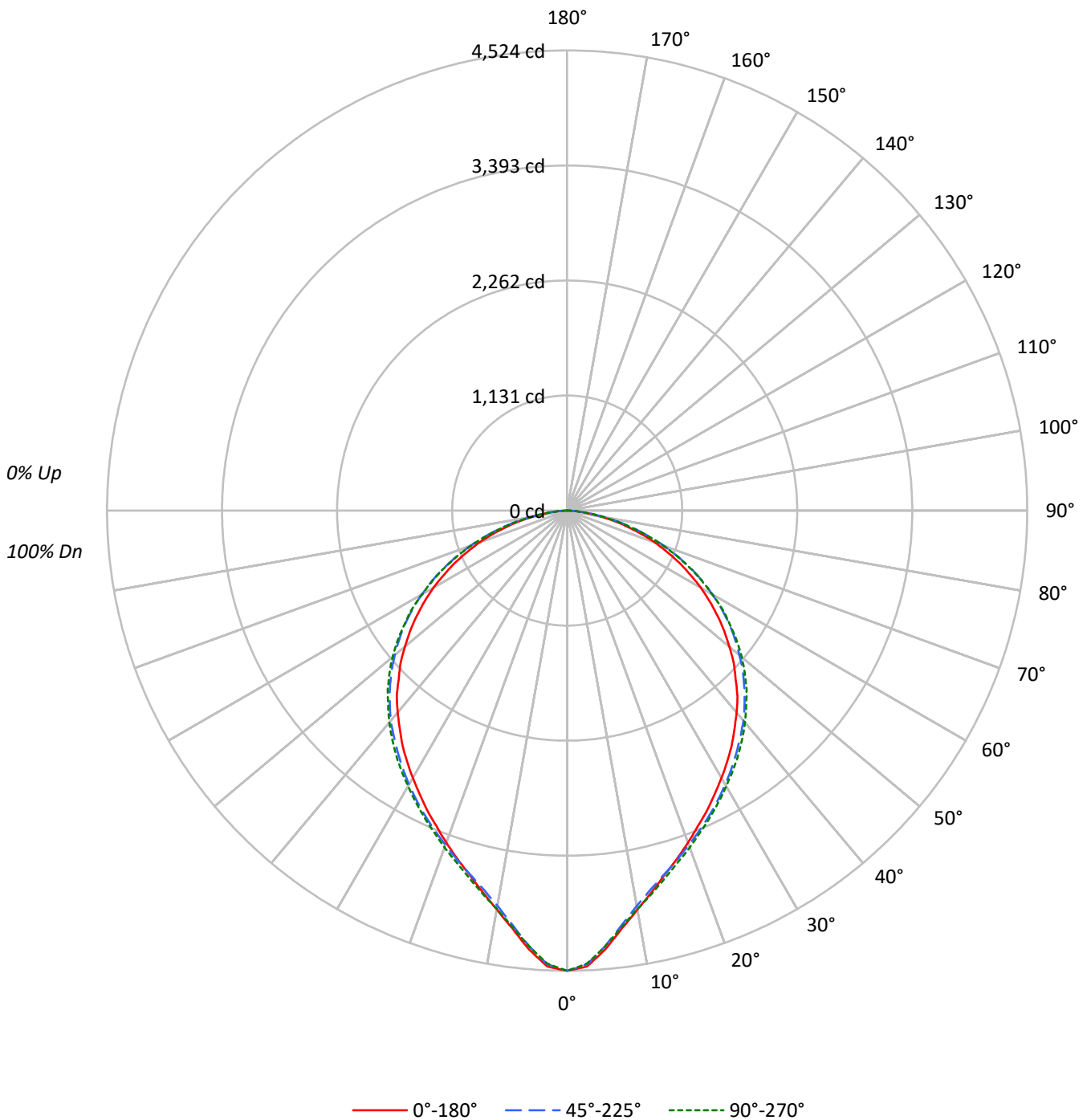
Lumens per Lamp: N/A
Luminaire Lumens: 10509.2 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6088	6088	6088
5°	5845	5804	5804
10°	5440	5391	5432
15°	5162	5153	5203
20°	4973	5008	5047
25°	4830	4909	4938
30°	4714	4830	4860
35°	4633	4769	4817
40°	4551	4736	4776
45°	4457	4689	4745
50°	4359	4631	4693
55°	4238	4564	4583
60°	4085	4439	4430
65°	3873	4269	4240
70°	3616	3980	3932
75°	3191	3527	3491
80°	2593	2873	2733
85°	1798	1832	1763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	3.8
10°-20°	1047.2	10.0
20°-30°	1522.8	14.5
30°-40°	1812.1	17.2
40°-50°	1881.6	17.9
50°-60°	1704.6	16.2
60°-70°	1286.3	12.2
70°-80°	700.9	6.7
80°-90°	154.0	1.5
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°	2969.8	28.3
0°-40°	4781.9	45.5
0°-60°	8368.1	79.6
0°-90°	10509.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10509.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4524	4524	4524	4524	4524	
5°	4328	4318	4297	4295	4297	402
15°	3706	3697	3699	3724	3735	1046
25°	3254	3281	3307	3334	3326	1499
35°	2821	2855	2903	2947	2933	1763
45°	2342	2384	2464	2492	2494	1811
55°	1806	1850	1946	1959	1954	1613
65°	1216	1252	1341	1338	1332	1202
75°	614	639	678	683	672	654
85°	116	118	119	118	114	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4524.4	4524.4	4524.4	4524.4	4524.4
2.5°	4484.8	4480.3	4465.6	4459.9	4458.7
5°	4327.7	4317.5	4297.1	4294.9	4297.1
7.5°	4140.0	4128.6	4108.4	4116.3	4126.4
10°	3981.7	3953.5	3945.5	3956.8	3976.0
12.5°	3840.4	3817.8	3810.9	3840.4	3854.0
15°	3705.8	3696.8	3699.1	3724.0	3735.2
17.5°	3589.4	3583.8	3598.5	3617.7	3623.4
20°	3473.0	3484.3	3497.9	3518.2	3525.0
22.5°	3358.8	3380.2	3402.9	3430.0	3421.0
25°	3253.7	3280.8	3306.8	3333.9	3326.0
27.5°	3141.7	3173.3	3209.6	3239.0	3227.6
30°	3034.3	3073.9	3109.0	3145.1	3128.2
32.5°	2928.1	2965.4	3007.2	3051.3	3032.1
35°	2820.7	2854.6	2903.2	2947.3	2932.6
37.5°	2702.0	2743.8	2799.1	2837.6	2827.5
40°	2591.2	2629.6	2696.3	2721.2	2718.9
42.5°	2479.2	2510.9	2581.0	2609.2	2604.7
45°	2342.5	2384.3	2464.5	2491.7	2493.9
47.5°	2221.5	2256.6	2342.5	2363.9	2368.4
50°	2082.4	2126.5	2212.5	2238.4	2241.9
52.5°	1945.6	1993.1	2081.3	2099.4	2102.8
55°	1806.5	1849.5	1945.6	1959.2	1953.6
57.5°	1660.8	1712.8	1801.0	1807.7	1813.4
60°	1518.2	1563.5	1649.4	1658.5	1646.1
62.5°	1363.4	1409.8	1498.0	1500.2	1490.0
65°	1216.4	1251.5	1340.8	1338.5	1331.7
67.5°	1062.6	1105.6	1171.2	1173.4	1167.9
70°	919.1	948.5	1011.8	1013.0	999.4
72.5°	764.3	795.9	846.7	840.0	836.6
75°	613.9	638.8	678.4	682.9	671.5
77.5°	476.0	494.0	523.4	520.1	507.6
80°	334.6	349.3	370.8	366.3	352.7
82.5°	213.6	222.8	236.3	230.6	225.0
85°	116.5	117.5	118.7	117.5	114.2
87.5°	43.0	44.1	44.1	43.0	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)