

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: P489879

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-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: P489879
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-LD4-4LO-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

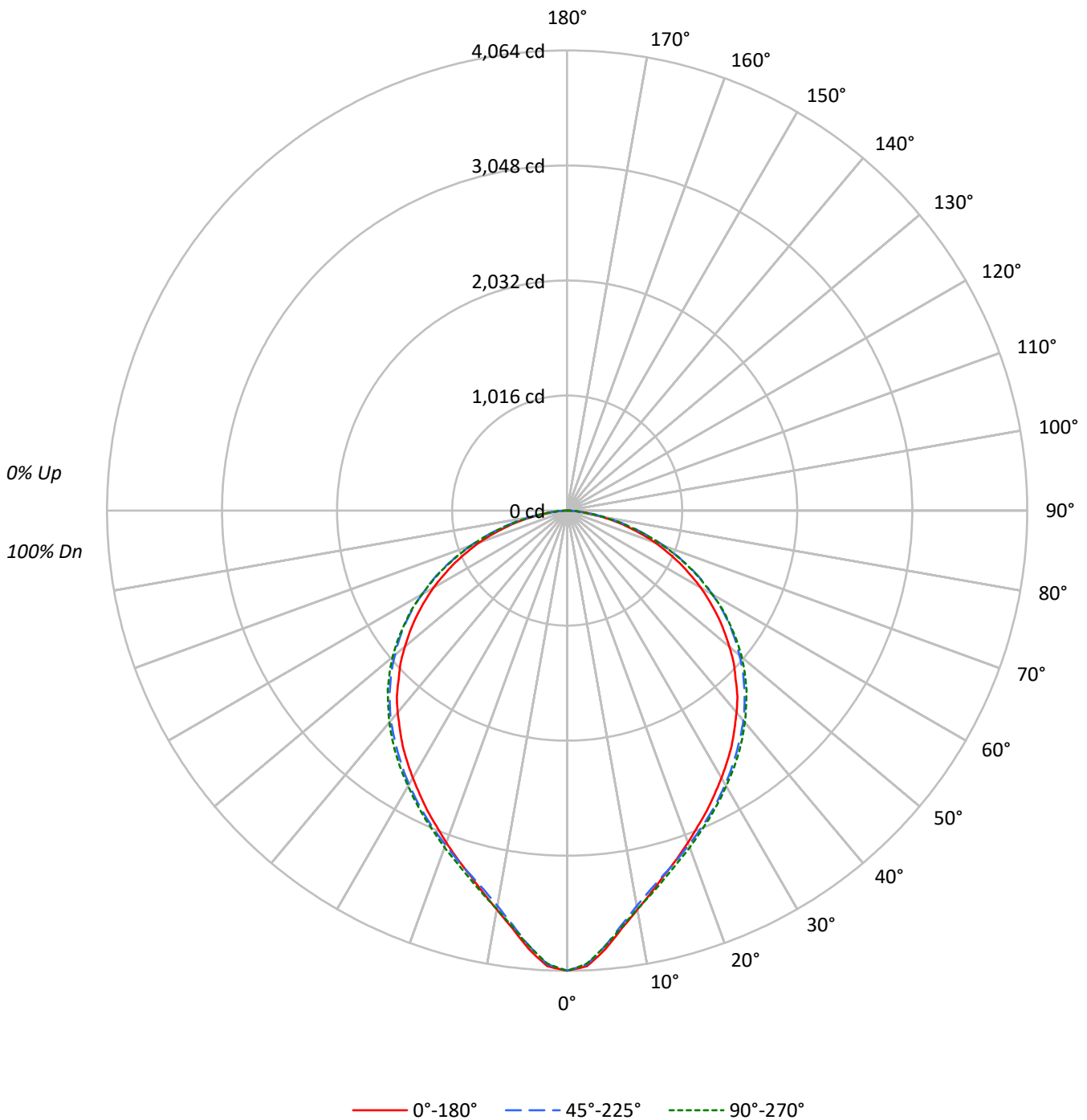
Lumens per Lamp: N/A
Luminaire Lumens: 9439.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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	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°	5468	5468	5468
5°	5250	5213	5213
10°	4886	4842	4879
15°	4636	4628	4673
20°	4466	4498	4533
25°	4338	4409	4435
30°	4234	4338	4365
35°	4161	4283	4326
40°	4088	4254	4289
45°	4003	4212	4262
50°	3915	4160	4215
55°	3806	4099	4116
60°	3669	3987	3978
65°	3478	3834	3808
70°	3247	3575	3531
75°	2866	3167	3135
80°	2328	2581	2455
85°	1615	1646	1582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.1	3.8
10°-20°	940.5	10.0
20°-30°	1367.7	14.5
30°-40°	1627.6	17.2
40°-50°	1690.0	17.9
50°-60°	1531.0	16.2
60°-70°	1155.3	12.2
70°-80°	629.5	6.7
80°-90°	138.3	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°	2667.3	28.3
0°-40°	4294.9	45.5
0°-60°	7515.9	79.6
0°-90°	9439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4064	4064	4064	4064	4064	
5°	3887	3878	3860	3858	3860	361
15°	3328	3320	3322	3345	3355	939
25°	2922	2947	2970	2994	2987	1347
35°	2533	2564	2608	2647	2634	1584
45°	2104	2142	2214	2238	2240	1626
55°	1623	1661	1748	1760	1755	1449
65°	1092	1124	1204	1202	1196	1080
75°	551	574	609	613	603	587
85°	105	106	107	106	102	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4063.6	4063.6	4063.6	4063.6	4063.6
2.5°	4028.1	4024.0	4010.8	4005.7	4004.7
5°	3887.0	3877.8	3859.5	3857.5	3859.5
7.5°	3718.4	3708.2	3690.0	3697.1	3706.2
10°	3576.2	3550.9	3543.7	3553.9	3571.1
12.5°	3449.3	3429.0	3422.9	3449.3	3461.5
15°	3328.4	3320.3	3322.4	3344.7	3354.8
17.5°	3223.9	3218.8	3232.0	3249.3	3254.4
20°	3119.3	3129.5	3141.7	3160.0	3166.0
22.5°	3016.8	3036.0	3056.4	3080.7	3072.6
25°	2922.3	2946.7	2970.1	2994.4	2987.3
27.5°	2821.8	2850.2	2882.7	2909.1	2898.9
30°	2725.3	2760.9	2792.4	2824.8	2809.6
32.5°	2629.9	2663.4	2701.0	2740.6	2723.3
35°	2533.4	2563.9	2607.6	2647.2	2634.0
37.5°	2426.8	2464.4	2514.1	2548.6	2539.5
40°	2327.3	2361.8	2421.7	2444.1	2442.0
42.5°	2226.8	2255.2	2318.2	2343.5	2339.5
45°	2103.9	2141.5	2213.5	2238.0	2240.0
47.5°	1995.3	2026.8	2103.9	2123.2	2127.2
50°	1870.4	1910.0	1987.2	2010.5	2013.6
52.5°	1747.5	1790.1	1869.3	1885.6	1888.7
55°	1622.6	1661.2	1747.5	1759.7	1754.6
57.5°	1491.6	1538.3	1617.6	1623.6	1628.7
60°	1363.6	1404.3	1481.5	1489.6	1478.4
62.5°	1224.6	1266.2	1345.4	1347.4	1338.3
65°	1092.5	1124.0	1204.2	1202.2	1196.1
67.5°	954.4	993.0	1052.0	1054.0	1048.9
70°	825.5	851.9	908.8	909.8	897.6
72.5°	686.4	714.8	760.5	754.5	751.4
75°	551.4	573.7	609.3	613.3	603.1
77.5°	427.5	443.7	470.1	467.1	455.9
80°	300.5	313.7	333.1	329.0	316.8
82.5°	191.9	200.1	212.2	207.1	202.1
85°	104.6	105.6	106.6	105.6	102.5
87.5°	38.6	39.6	39.6	38.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)