

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: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-24SE-W-CL-UNV-L740-ED2-U**

Issue Date: 3/3/2020

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: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CL-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

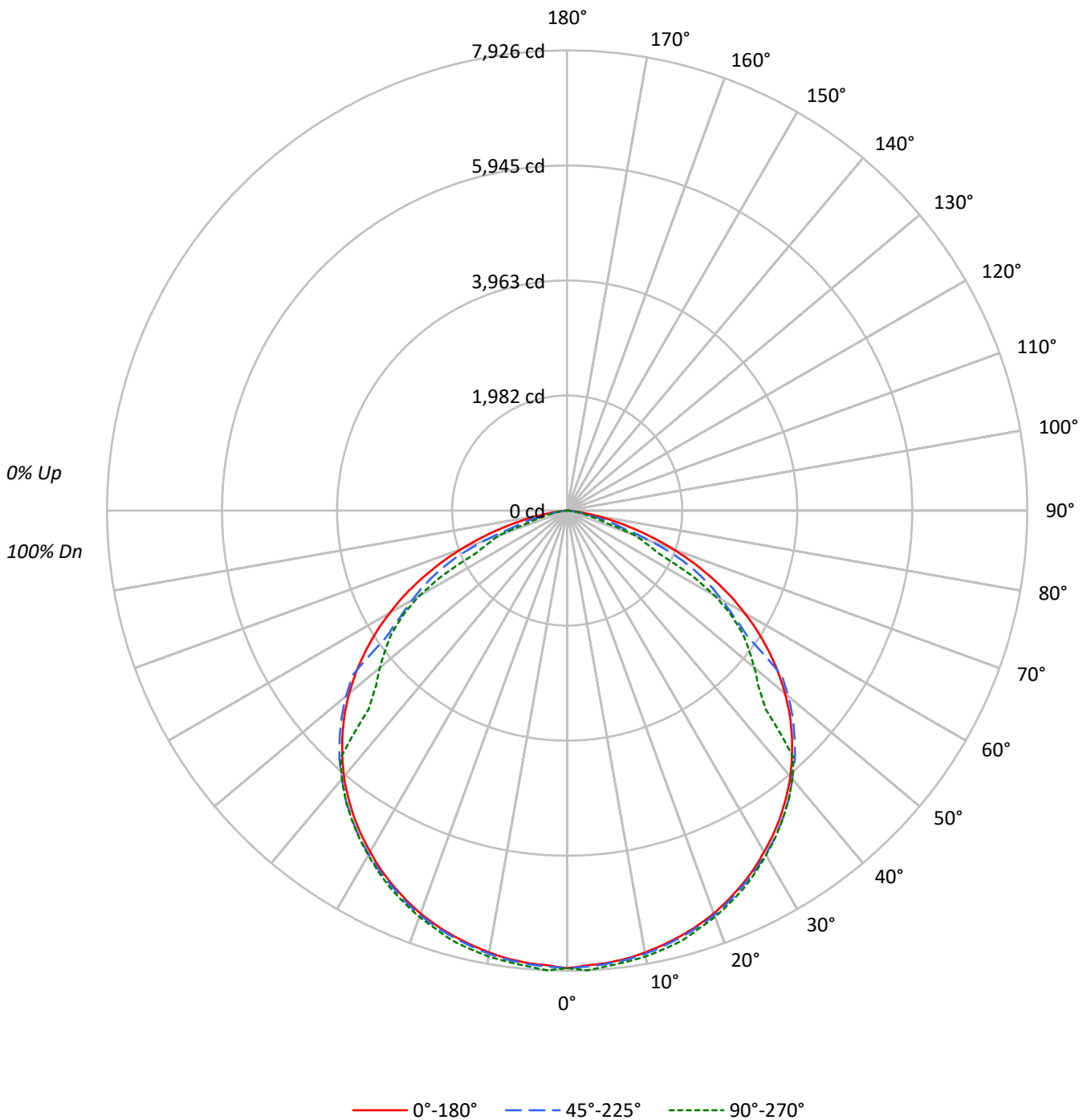
Lumens per Lamp: N/A
Luminaire Lumens: 21302.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10602	10602	10602
5°	10563	10587	10638
10°	10562	10592	10654
15°	10562	10594	10679
20°	10575	10615	10664
25°	10563	10603	10667
30°	10543	10620	10644
35°	10538	10634	10642
40°	10505	10597	10597
45°	10415	10541	9184
50°	10254	10409	8812
55°	9963	8910	8655
60°	9496	8282	7908
65°	8782	7688	5477
70°	7646	5982	4880
75°	6040	4015	2623
80°	3888	1918	1636
85°	1599	1170	1289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.4	3.5
10°-20°	2154.4	10.1
20°-30°	3303.0	15.5
30°-40°	4048.3	19.0
40°-50°	4162.0	19.5
50°-60°	3552.1	16.7
60°-70°	2348.3	11.0
70°-80°	870.0	4.1
80°-90°	116.3	0.5
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°	6204.8	29.1
0°-40°	10253.2	48.1
0°-60°	17967.3	84.3
0°-90°	21302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7880	7880	7880	7880	7880	
5°	7821	7876	7838	7869	7877	744
15°	7582	7628	7605	7663	7666	2142
25°	7115	7152	7142	7206	7185	3280
35°	6416	6460	6474	6514	6479	4013
45°	5473	5528	5540	5531	4827	4218
55°	4247	4325	3798	3688	3690	3790
65°	2758	2781	2415	1986	1720	2720
75°	1162	1018	772	519	505	1246
85°	104	74	76	82	84	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7879.5	7879.5	7879.5	7879.5	7879.5
2.5°	7841.2	7890.1	7861.3	7897.8	7925.6
5°	7821.0	7875.7	7838.3	7869.0	7876.7
7.5°	7786.5	7837.3	7802.8	7843.1	7837.3
10°	7730.8	7776.9	7752.9	7795.1	7798.0
12.5°	7659.8	7705.9	7683.8	7735.6	7734.7
15°	7582.1	7628.2	7605.1	7662.7	7666.5
17.5°	7491.0	7533.2	7515.9	7568.7	7547.6
20°	7385.4	7421.9	7413.3	7463.2	7447.8
22.5°	7255.9	7293.3	7284.7	7342.3	7319.2
25°	7114.9	7152.3	7141.8	7206.0	7184.9
27.5°	6962.3	6997.8	6996.9	7057.3	7024.7
30°	6785.8	6832.8	6835.7	6889.4	6851.1
32.5°	6611.2	6655.3	6667.8	6707.1	6674.5
35°	6415.5	6459.6	6474.0	6514.3	6478.8
37.5°	6204.4	6241.8	6267.7	6297.5	6269.7
40°	5980.9	6014.5	6033.6	6070.1	6033.6
42.5°	5731.4	5779.4	5806.3	5832.2	5772.7
45°	5473.4	5528.0	5539.6	5530.9	4826.7
47.5°	5199.9	5259.4	5266.1	4592.6	4463.1
50°	4898.7	4973.5	4972.6	4244.4	4209.8
52.5°	4585.0	4656.9	4654.0	3971.9	3948.9
55°	4247.3	4325.0	3798.3	3687.9	3689.8
57.5°	3902.8	3958.5	3407.8	3412.6	3349.3
60°	3528.7	3581.4	3077.7	3048.0	2938.6
62.5°	3153.5	3175.6	2758.3	2613.4	2405.2
65°	2758.3	2781.3	2414.8	1986.0	1720.2
67.5°	2352.4	2375.5	2004.2	1477.5	1457.3
70°	1943.7	1755.7	1520.6	1230.9	1240.5
72.5°	1540.8	1348.9	993.9	953.6	688.8
75°	1161.8	1017.9	772.3	519.0	504.6
77.5°	808.8	701.3	413.5	354.0	331.0
80°	501.8	352.1	247.5	219.7	211.1
82.5°	254.2	202.4	134.3	134.3	134.3
85°	103.6	73.9	75.8	82.5	83.5
87.5°	22.1	29.7	36.5	37.4	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)