

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-AWG-UNV-L835-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 (P23764)
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-AWG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

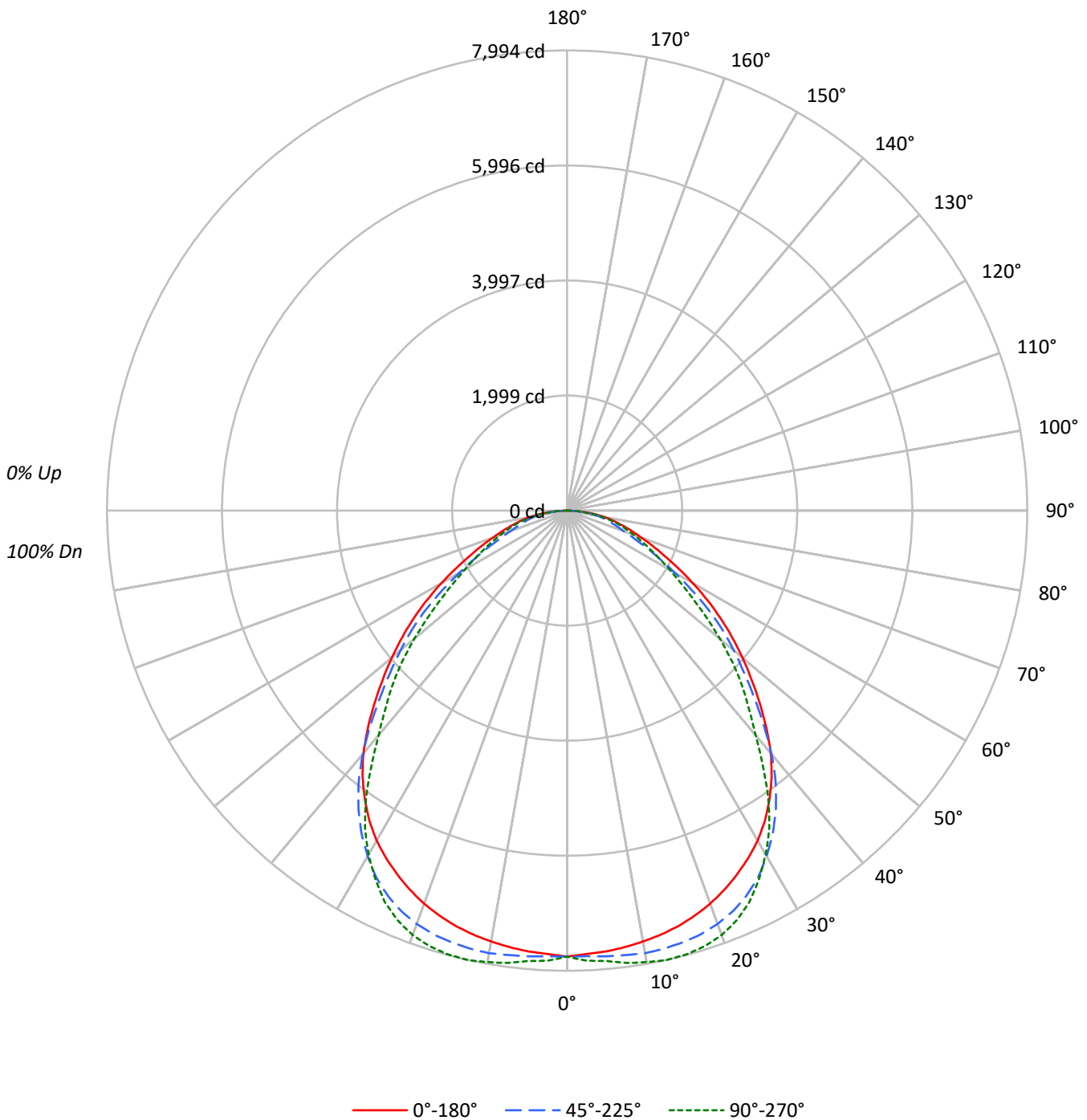
Lumens per Lamp: N/A
Luminaire Lumens: 19205.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10424	10424	10424
5°	10384	10500	10606
10°	10386	10668	10883
15°	10406	10816	11120
20°	10404	10940	11234
25°	10359	10954	11132
30°	10282	10772	10715
35°	10064	10382	10004
40°	9671	9698	8944
45°	9001	8744	8176
50°	8320	7907	7245
55°	7616	7007	6252
60°	6791	5816	5521
65°	5956	4786	5073
70°	5378	4123	4830
75°	5140	4041	4816
80°	5181	4279	4699
85°	4590	3920	4102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.2	3.9
10°-20°	2193.1	11.4
20°-30°	3363.9	17.5
30°-40°	3869.0	20.1
40°-50°	3528.8	18.4
50°-60°	2644.8	13.8
60°-70°	1626.9	8.5
70°-80°	932.3	4.9
80°-90°	301.8	1.6
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°	6301.2	32.8
0°-40°	10170.3	53.0
0°-60°	16343.9	85.1
0°-90°	19205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7747	7747	7747	7747	7747	
5°	7688	7766	7774	7838	7853	731
15°	7471	7636	7765	7931	7983	2109
25°	6978	7178	7379	7492	7498	3215
35°	6127	6247	6321	6217	6091	3821
45°	4730	4833	4595	4358	4297	3651
55°	3247	3126	2987	2723	2665	2901
65°	1871	1673	1503	1550	1593	1881
75°	989	886	777	890	926	1057
85°	297	280	254	268	266	332
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7747.1	7747.1	7747.1	7747.1	7747.1
2.5°	7710.6	7765.9	7748.1	7793.6	7827.1
5°	7687.9	7765.9	7773.8	7838.0	7852.8
7.5°	7649.3	7751.1	7786.7	7900.2	7925.9
10°	7601.9	7724.4	7808.4	7930.9	7965.4
12.5°	7544.6	7686.9	7793.6	7944.7	7994.1
15°	7470.6	7636.5	7764.9	7930.9	7983.2
17.5°	7376.7	7569.3	7719.5	7882.5	7936.8
20°	7266.1	7469.6	7640.5	7807.4	7845.9
22.5°	7132.7	7337.2	7531.8	7681.9	7702.7
25°	6977.7	7178.2	7378.7	7492.3	7498.2
27.5°	6808.8	6995.4	7183.1	7244.4	7217.7
30°	6618.1	6785.0	6933.2	6946.1	6896.7
32.5°	6391.9	6542.1	6647.7	6620.1	6537.1
35°	6127.2	6246.7	6320.8	6217.1	6090.6
37.5°	5836.8	5926.7	5951.4	5726.1	5581.9
40°	5505.9	5582.9	5521.7	5208.6	5092.0
42.5°	5124.6	5213.5	5056.4	4747.3	4676.1
45°	4730.5	4833.2	4595.1	4358.1	4296.8
47.5°	4344.2	4438.1	4168.4	3977.8	3886.9
50°	3974.8	4015.3	3777.3	3561.9	3461.2
52.5°	3611.3	3570.8	3401.9	3134.2	3045.3
55°	3246.8	3126.3	2987.0	2723.3	2665.0
57.5°	2881.3	2713.4	2561.3	2358.8	2336.1
60°	2523.8	2317.3	2161.3	2040.7	2051.6
62.5°	2183.0	1972.6	1805.7	1767.1	1808.6
65°	1870.9	1673.3	1503.4	1549.8	1593.3
67.5°	1611.1	1421.4	1248.6	1367.1	1401.7
70°	1367.1	1214.0	1048.0	1201.1	1227.8
72.5°	1172.5	1042.1	897.9	1047.0	1069.8
75°	988.8	886.0	777.4	890.0	926.5
77.5°	828.7	743.8	669.7	735.9	775.4
80°	668.7	596.6	552.2	581.8	606.5
82.5°	489.9	443.5	410.9	423.8	427.7
85°	297.3	280.5	253.9	267.7	265.7
87.5°	97.8	111.6	117.5	105.7	99.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)