

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-LD5-24HE-W-AWG-UNV-L840-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-LD5-24HE-W-AWG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

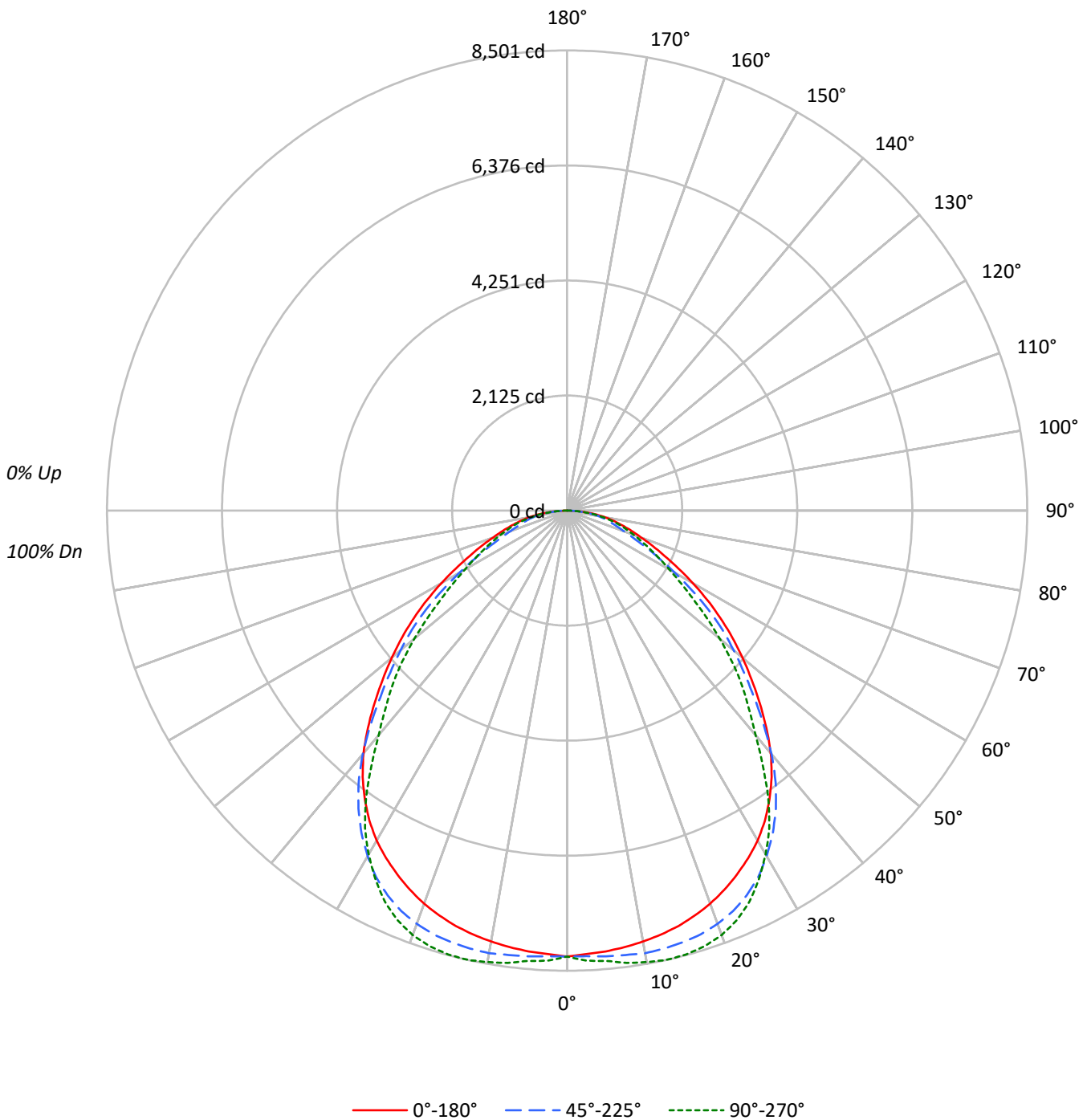
Lumens per Lamp: N/A
Luminaire Lumens: 20422.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 146.3
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°	11084	11084	11084
5°	11041	11165	11278
10°	11044	11344	11572
15°	11066	11502	11825
20°	11063	11633	11946
25°	11015	11648	11837
30°	10934	11454	11394
35°	10702	11040	10638
40°	10283	10313	9510
45°	9572	9298	8694
50°	8847	8408	7704
55°	8099	7451	6648
60°	7222	6184	5871
65°	6334	5090	5394
70°	5719	4384	5136
75°	5466	4297	5122
80°	5510	4550	4997
85°	4881	4167	4363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.4	3.9
10°-20°	2332.1	11.4
20°-30°	3577.1	17.5
30°-40°	4114.2	20.1
40°-50°	3752.4	18.4
50°-60°	2812.5	13.8
60°-70°	1730.0	8.5
70°-80°	991.4	4.9
80°-90°	321.0	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°	6700.5	32.8
0°-40°	10814.7	53.0
0°-60°	17379.6	85.1
0°-90°	20422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8238	8238	8238	8238	8238	
5°	8175	8258	8266	8335	8350	777
15°	7944	8120	8257	8433	8489	2242
25°	7420	7633	7846	7967	7973	3419
35°	6516	6643	6721	6611	6477	4063
45°	5030	5140	4886	4634	4569	3882
55°	3453	3324	3176	2896	2834	3085
65°	1989	1779	1599	1648	1694	2000
75°	1051	942	827	946	985	1124
85°	316	298	270	285	283	353
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8238.1	8238.1	8238.1	8238.1	8238.1
2.5°	8199.2	8258.0	8239.1	8287.4	8323.1
5°	8175.0	8258.0	8266.4	8334.7	8350.5
7.5°	8134.1	8242.3	8280.1	8400.9	8428.2
10°	8083.7	8213.9	8303.2	8433.4	8470.2
12.5°	8022.7	8174.0	8287.4	8448.1	8500.7
15°	7944.0	8120.4	8257.0	8433.4	8489.1
17.5°	7844.2	8049.0	8208.7	8382.0	8439.7
20°	7726.5	7942.9	8124.6	8302.1	8343.1
22.5°	7584.7	7802.2	8009.1	8168.7	8190.8
25°	7419.8	7633.1	7846.3	7967.1	7973.4
27.5°	7240.2	7438.7	7638.3	7703.4	7675.1
30°	7037.5	7215.0	7372.6	7386.2	7333.7
32.5°	6797.0	6956.6	7069.0	7039.6	6951.4
35°	6515.5	6642.6	6721.3	6611.0	6476.6
37.5°	6206.6	6302.2	6328.5	6089.0	5935.7
40°	5854.8	5936.7	5871.6	5538.6	5414.7
42.5°	5449.3	5543.9	5376.9	5048.1	4972.5
45°	5030.2	5139.5	4886.3	4634.2	4569.1
47.5°	4619.5	4719.3	4432.6	4229.8	4133.2
50°	4226.7	4269.8	4016.6	3787.6	3680.5
52.5°	3840.2	3797.1	3617.5	3332.8	3238.3
55°	3452.6	3324.4	3176.3	2895.9	2833.9
57.5°	3063.9	2885.4	2723.6	2508.3	2484.1
60°	2683.7	2464.2	2298.2	2170.1	2181.6
62.5°	2321.3	2097.6	1920.1	1879.1	1923.2
65°	1989.4	1779.3	1598.7	1648.0	1694.2
67.5°	1713.2	1511.5	1327.7	1453.7	1490.5
70°	1453.7	1290.9	1114.4	1277.3	1305.6
72.5°	1246.8	1108.1	954.8	1113.4	1137.6
75°	1051.4	942.2	826.6	946.4	985.2
77.5°	881.3	790.9	712.2	782.5	824.5
80°	711.1	634.4	587.2	618.7	644.9
82.5°	521.0	471.6	437.0	450.6	454.8
85°	316.2	298.3	269.9	284.7	282.6
87.5°	104.0	118.7	125.0	112.4	106.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)