

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-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-LD5-24HE-W-AWG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

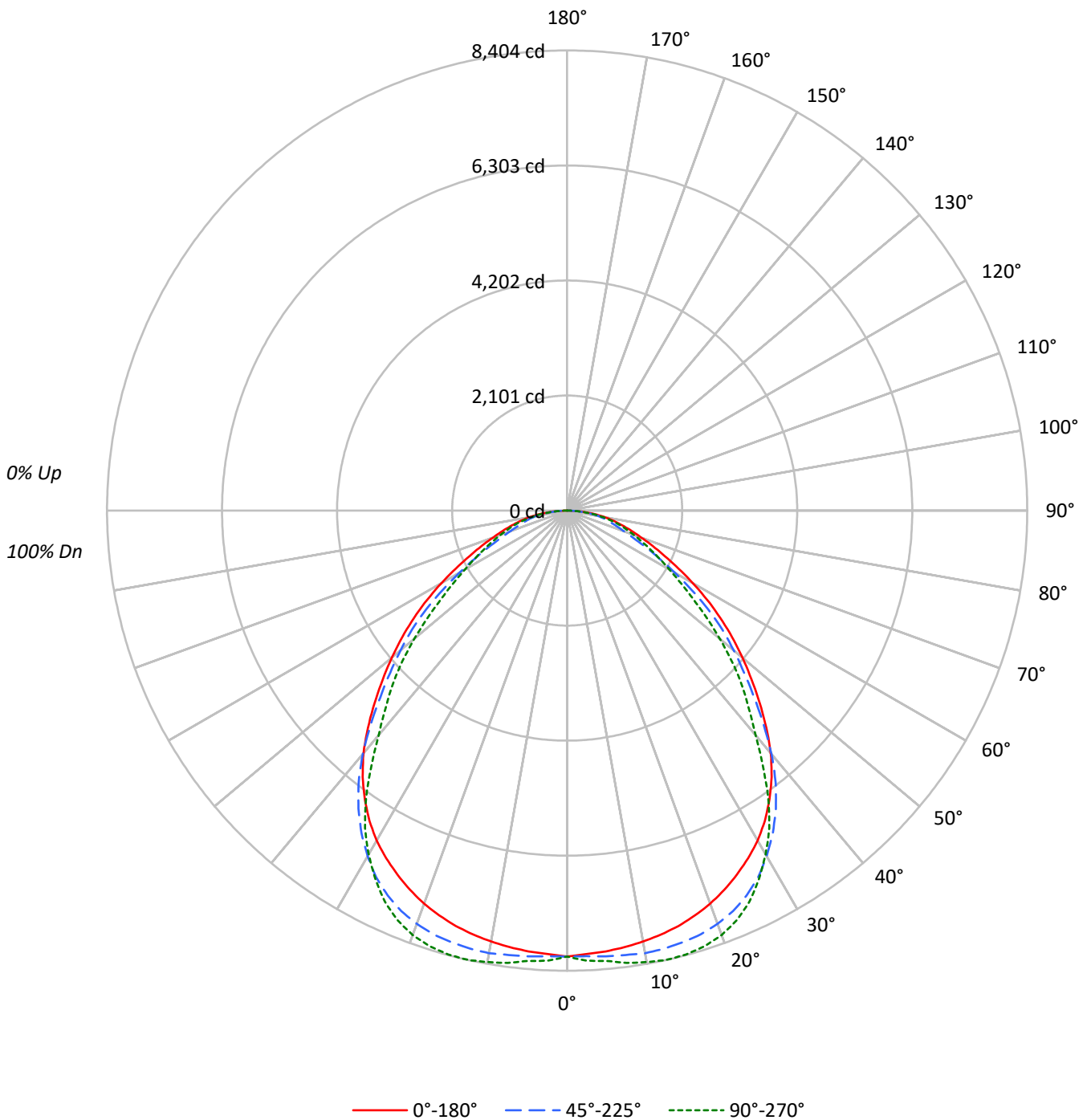
Lumens per Lamp: N/A
Luminaire Lumens: 20189.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	10958	10958	10958
5°	10916	11037	11150
10°	10918	11215	11440
15°	10939	11370	11690
20°	10937	11500	11810
25°	10890	11516	11702
30°	10809	11324	11264
35°	10580	10914	10517
40°	10166	10195	9402
45°	9462	9192	8595
50°	8746	8312	7616
55°	8007	7366	6572
60°	7139	6114	5804
65°	6261	5032	5332
70°	5653	4334	5078
75°	5403	4248	5063
80°	5447	4498	4940
85°	4826	4120	4312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.3	3.9
10°-20°	2305.5	11.4
20°-30°	3536.3	17.5
30°-40°	4067.2	20.1
40°-50°	3709.6	18.4
50°-60°	2780.4	13.8
60°-70°	1710.3	8.5
70°-80°	980.1	4.9
80°-90°	317.3	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°	6624.1	32.8
0°-40°	10691.3	53.0
0°-60°	17181.3	85.1
0°-90°	20189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8144	8144	8144	8144	8144	
5°	8082	8164	8172	8240	8255	769
15°	7853	8028	8163	8337	8392	2217
25°	7335	7546	7757	7876	7882	3380
35°	6441	6567	6645	6536	6403	4017
45°	4973	5081	4831	4581	4517	3838
55°	3413	3286	3140	2863	2802	3049
65°	1967	1759	1580	1629	1675	1978
75°	1039	931	817	936	974	1111
85°	313	295	267	281	279	349
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8144.1	8144.1	8144.1	8144.1	8144.1
2.5°	8105.7	8163.8	8145.1	8192.9	8228.2
5°	8081.8	8163.8	8172.1	8239.6	8255.2
7.5°	8041.3	8148.2	8185.6	8305.0	8332.0
10°	7991.4	8120.2	8208.5	8337.2	8373.6
12.5°	7931.2	8080.7	8192.9	8351.8	8403.7
15°	7853.3	8027.8	8162.8	8337.2	8392.3
17.5°	7754.7	7957.2	8115.0	8286.3	8343.4
20°	7638.4	7852.3	8031.9	8207.4	8247.9
22.5°	7498.2	7713.1	7917.7	8075.5	8097.3
25°	7335.2	7546.0	7756.8	7876.2	7882.4
27.5°	7157.6	7353.9	7551.2	7615.5	7587.5
30°	6957.2	7132.7	7288.4	7301.9	7250.0
32.5°	6719.4	6877.2	6988.4	6959.3	6872.1
35°	6441.1	6566.8	6644.6	6535.6	6402.7
37.5°	6135.8	6230.3	6256.3	6019.5	5867.9
40°	5788.0	5869.0	5804.6	5475.4	5352.9
42.5°	5387.2	5480.6	5315.5	4990.5	4915.7
45°	4972.8	5080.8	4830.6	4581.4	4517.0
47.5°	4566.8	4665.5	4382.0	4181.6	4086.1
50°	4178.5	4221.0	3970.8	3744.4	3638.5
52.5°	3796.3	3753.8	3576.2	3294.8	3201.4
55°	3413.2	3286.5	3140.1	2862.8	2801.6
57.5°	3029.0	2852.5	2692.5	2479.7	2455.8
60°	2653.1	2436.1	2272.0	2145.3	2156.7
62.5°	2294.8	2073.7	1898.2	1857.7	1901.3
65°	1966.7	1759.0	1580.4	1629.2	1674.9
67.5°	1693.6	1494.2	1312.5	1437.1	1473.5
70°	1437.1	1276.2	1101.7	1262.7	1290.7
72.5°	1232.6	1095.5	943.9	1100.7	1124.6
75°	1039.4	931.4	817.2	935.6	974.0
77.5°	871.2	781.9	704.0	773.6	815.1
80°	703.0	627.2	580.5	611.6	637.6
82.5°	515.0	466.2	432.0	445.5	449.6
85°	312.6	294.9	266.9	281.4	279.3
87.5°	102.8	117.3	123.6	111.1	104.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)