

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-L850-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-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

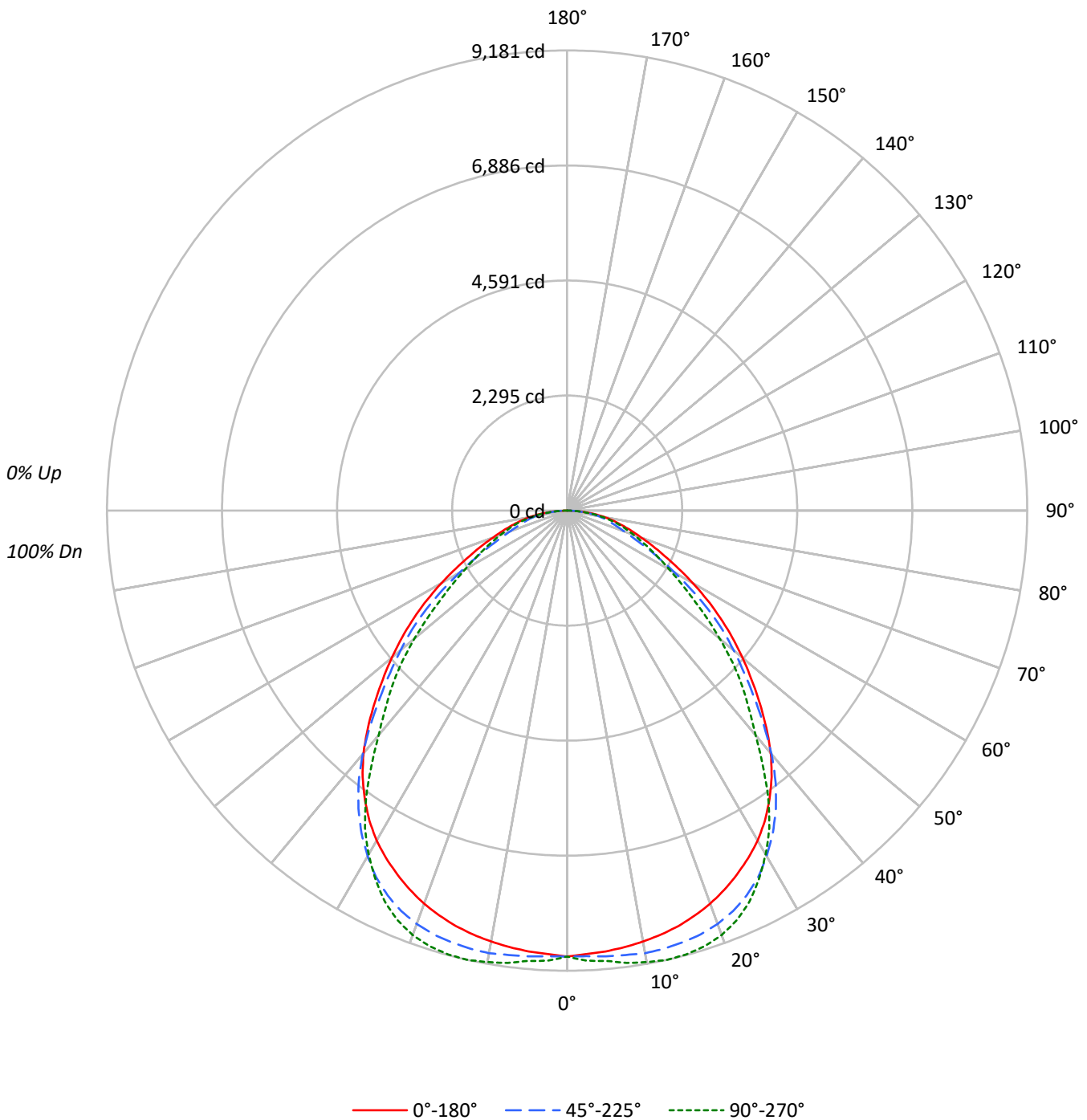
Lumens per Lamp: N/A
Luminaire Lumens: 22056.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11971	11971	11971
5°	11925	12058	12181
10°	11928	12252	12498
15°	11951	12422	12771
20°	11948	12564	12902
25°	11897	12581	12784
30°	11809	12371	12306
35°	11558	11923	11489
40°	11106	11138	10271
45°	10337	10042	9390
50°	9555	9080	8321
55°	8747	8047	7180
60°	7800	6679	6340
65°	6840	5497	5826
70°	6176	4735	5547
75°	5903	4641	5532
80°	5951	4913	5397
85°	5272	4500	4712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.7	3.9
10°-20°	2518.7	11.4
20°-30°	3863.3	17.5
30°-40°	4443.4	20.1
40°-50°	4052.7	18.4
50°-60°	3037.5	13.8
60°-70°	1868.4	8.5
70°-80°	1070.7	4.9
80°-90°	346.7	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°	7236.7	32.8
0°-40°	11680.0	53.0
0°-60°	18770.2	85.1
0°-90°	22056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8897	8897	8897	8897	8897	
5°	8829	8919	8928	9002	9019	840
15°	8580	8770	8918	9108	9168	2422
25°	8014	8244	8474	8604	8611	3693
35°	7037	7174	7259	7140	6995	4389
45°	5433	5551	5277	5005	4935	4193
55°	3729	3590	3430	3128	3061	3331
65°	2149	1922	1727	1780	1830	2161
75°	1136	1018	893	1022	1064	1214
85°	342	322	292	307	305	381
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8897.2	8897.2	8897.2	8897.2	<i>8897.2</i>
2.5°	8855.2	8918.8	8898.3	8950.5	<i>8989.1</i>
5°	8829.1	8918.8	8927.8	9001.6	<i>9018.6</i>
7.5°	8784.9	8901.7	8942.6	9073.0	<i>9102.5</i>
10°	8730.5	8871.1	8967.5	9108.2	<i>9147.9</i>
12.5°	<i>8664.7</i>	<i>8828.0</i>	<i>8950.5</i>	<i>9124.1</i>	<i>9180.8</i>
15°	8579.6	8770.2	8917.6	9108.2	<i>9168.3</i>
17.5°	8471.8	8693.0	8865.4	9052.6	<i>9115.0</i>
20°	8344.7	8578.4	8774.7	8966.4	<i>9010.7</i>
22.5°	8191.6	8426.4	8649.9	8822.3	<i>8846.2</i>
25°	8013.5	8243.8	8474.1	8604.5	<i>8611.3</i>
27.5°	7819.5	8033.9	8249.5	8319.8	<i>8289.2</i>
30°	7600.6	7792.3	7962.5	7977.2	<i>7920.5</i>
32.5°	7340.8	7513.2	7634.6	7602.8	<i>7507.6</i>
35°	7036.8	7174.0	7259.1	7140.0	<i>6994.8</i>
37.5°	6703.3	6806.5	6834.8	6576.2	<i>6410.6</i>
40°	6323.2	6411.7	6341.4	5981.8	<i>5847.9</i>
42.5°	5885.3	5987.4	5807.1	5452.0	<i>5370.3</i>
45°	5432.7	5550.7	5277.3	5005.0	<i>4934.7</i>
47.5°	4989.2	5096.9	4787.2	4568.3	<i>4463.9</i>
50°	4564.9	4611.4	4338.0	4090.7	<i>3975.0</i>
52.5°	4147.4	4100.9	3906.9	3599.5	<i>3497.4</i>
55°	3728.8	3590.4	3430.5	3127.6	<i>3060.6</i>
57.5°	3309.1	3116.2	2941.5	2709.0	<i>2682.9</i>
60°	2898.4	2661.3	2482.1	2343.7	<i>2356.2</i>
62.5°	2507.1	2265.4	2073.7	2029.5	<i>2077.1</i>
65°	2148.6	1921.7	1726.6	1779.9	<i>1829.8</i>
67.5°	1850.2	1632.4	1433.9	1570.0	<i>1609.7</i>
70°	1570.0	1394.2	1203.6	1379.4	<i>1410.1</i>
72.5°	1346.5	1196.8	1031.2	1202.5	<i>1228.6</i>
75°	1135.5	1017.6	892.8	1022.1	<i>1064.1</i>
77.5°	951.8	854.2	769.1	845.1	<i>890.5</i>
80°	768.0	685.2	634.1	668.2	<i>696.5</i>
82.5°	562.7	509.4	471.9	486.7	<i>491.2</i>
85°	341.5	322.2	291.5	307.4	<i>305.2</i>
87.5°	112.3	128.2	135.0	121.4	<i>114.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)