

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-CL-UNV-L735-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-LD5-24HE-W-CL-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

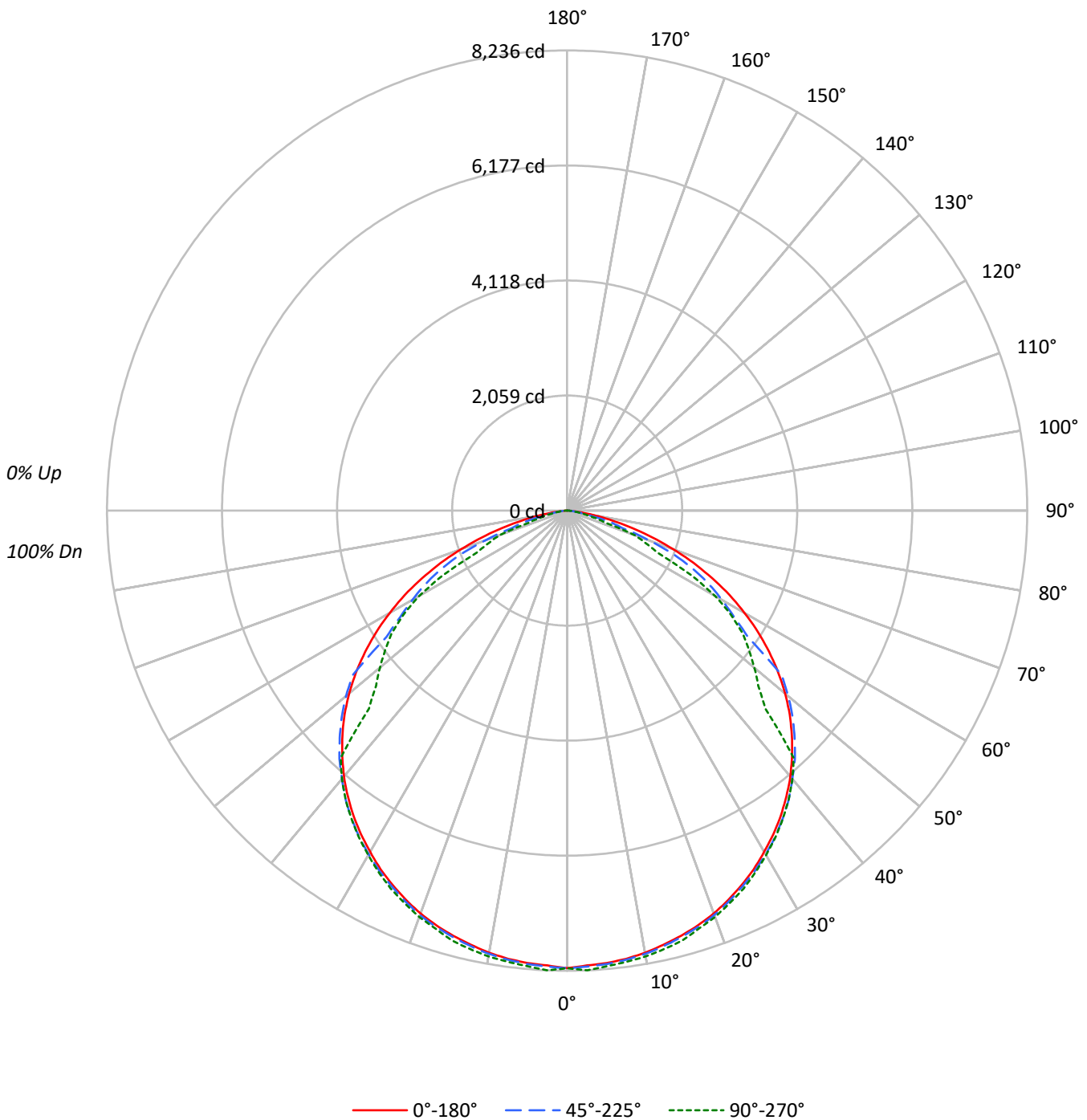
Lumens per Lamp: N/A
Luminaire Lumens: 22137.0 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L735-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L735-ED2-U

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°	11017	11017	11017
5°	10977	11002	11055
10°	10976	11008	11072
15°	10975	11009	11098
20°	10989	11031	11082
25°	10977	11018	11085
30°	10956	11037	11061
35°	10951	11051	11059
40°	10917	11013	11013
45°	10823	10954	9544
50°	10656	10817	9158
55°	10354	9259	8995
60°	9868	8607	8218
65°	9126	7989	5691
70°	7946	6217	5071
75°	6277	4172	2726
80°	4040	1993	1699
85°	1663	1216	1338



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L735-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.7	3.5
10°-20°	2238.8	10.1
20°-30°	3432.5	15.5
30°-40°	4207.0	19.0
40°-50°	4325.2	19.5
50°-60°	3691.3	16.7
60°-70°	2440.4	11.0
70°-80°	904.1	4.1
80°-90°	120.9	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°	6448.1	29.1
0°-40°	10655.1	48.1
0°-60°	18671.6	84.3
0°-90°	22137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8188	8188	8188	8188	8188	
5°	8128	8184	8146	8177	8185	773
15°	7879	7927	7903	7963	7967	2226
25°	7394	7433	7422	7488	7467	3409
35°	6667	6713	6728	6770	6733	4170
45°	5688	5745	5757	5748	5016	4383
55°	4414	4494	3947	3832	3834	3938
65°	2866	2890	2510	2064	1788	2826
75°	1207	1058	803	539	524	1295
85°	108	77	79	86	87	178
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-W-CL-UNV-L735-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8188.4	8188.4	8188.4	8188.4	8188.4
2.5°	8148.5	8199.4	8169.4	8207.3	8236.2
5°	8127.6	8184.4	8145.5	8177.4	8185.4
7.5°	8091.7	8144.5	8108.6	8150.5	8144.5
10°	8033.9	8081.7	8056.8	8100.7	8103.6
12.5°	7960.1	8007.9	7985.0	8038.8	8037.8
15°	7879.3	7927.2	7903.2	7963.1	7967.1
17.5°	7784.6	7828.5	7810.5	7865.4	7843.4
20°	7674.9	7712.8	7703.8	7755.7	7739.7
22.5°	7540.3	7579.2	7570.3	7630.1	7606.1
25°	7393.8	7432.7	7421.7	7488.5	7466.6
27.5°	7235.3	7272.1	7271.1	7334.0	7300.1
30°	7051.8	7100.7	7103.7	7159.5	7119.6
32.5°	6870.4	6916.2	6929.2	6970.1	6936.2
35°	6667.0	6712.8	6727.8	6769.7	6732.8
37.5°	6447.6	6486.5	6513.4	6544.3	6515.4
40°	6215.3	6250.2	6270.2	6308.0	6270.2
42.5°	5956.1	6006.0	6033.9	6060.8	5999.0
45°	5687.9	5744.7	5756.7	5747.7	5015.9
47.5°	5403.8	5465.6	5472.6	4772.7	4638.1
50°	5090.7	5168.5	5167.5	4410.7	4374.9
52.5°	4764.7	4839.5	4836.5	4127.6	4103.7
55°	4413.7	4494.5	3947.1	3832.5	3834.5
57.5°	4055.8	4113.6	3541.4	3546.3	3480.5
60°	3667.0	3721.8	3198.4	3167.5	3053.8
62.5°	3277.2	3300.1	2866.4	2715.8	2499.5
65°	2866.4	2890.3	2509.5	2063.8	1787.6
67.5°	2444.7	2468.6	2082.7	1535.4	1514.4
70°	2019.9	1824.5	1580.3	1279.2	1289.1
72.5°	1601.2	1401.8	1032.9	991.0	715.8
75°	1207.4	1057.8	802.6	539.4	524.4
77.5°	840.5	728.8	429.7	367.9	344.0
80°	521.4	365.9	257.2	228.3	219.3
82.5°	264.2	210.4	139.6	139.6	139.6
85°	107.7	76.8	78.8	85.7	86.7
87.5°	22.9	30.9	37.9	38.9	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)