

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-N-CL-UNV-L750-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CL-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

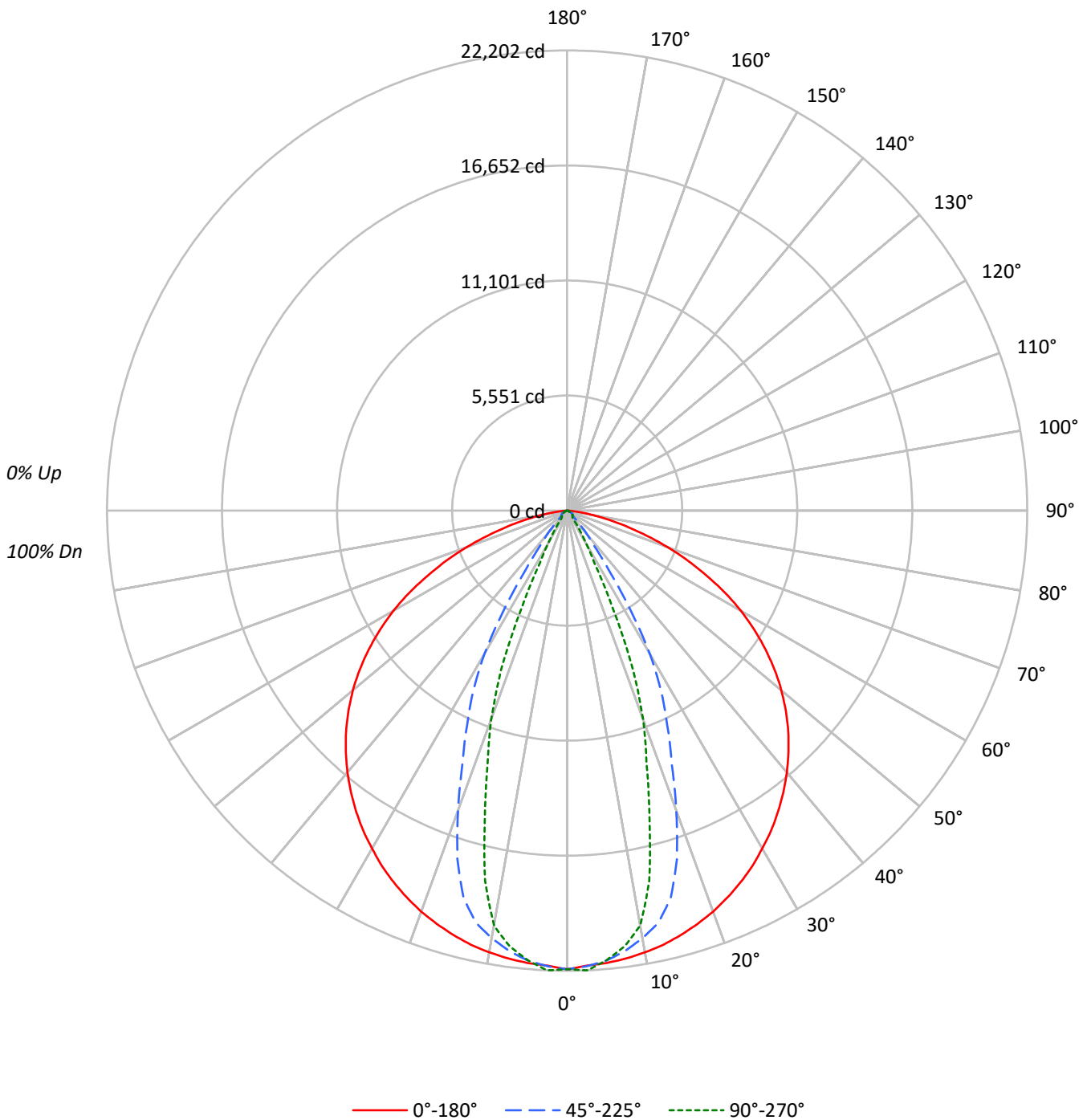
Lumens per Lamp: N/A
Luminaire Lumens: 23666.0 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-N-CL-UNV-L750-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-UNV-L750-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	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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29773	29773	29773
5°	29591	29436	29415
10°	29571	28622	27778
15°	29537	26915	21358
20°	29479	22026	15320
25°	29387	16970	7785
30°	29248	12385	2832
35°	29143	5688	986
40°	28964	2582	680
45°	28706	963	690
50°	28248	699	725
55°	27412	736	552
60°	26050	786	488
65°	23624	599	397
70°	20255	432	365
75°	15482	383	347
80°	9686	360	377
85°	3060	420	506



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-UNV-L750-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2060.1	8.7
10°-20°	5189.6	21.9
20°-30°	5651.8	23.9
30°-40°	4227.8	17.9
40°-50°	3039.9	12.8
50°-60°	1867.0	7.9
60°-70°	1074.3	4.5
70°-80°	479.5	2.0
80°-90°	76.0	0.3
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°	12901.5	54.5
0°-40°	17129.3	72.4
0°-60°	22036.2	93.1
0°-90°	23666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22128	22128	22128	22128	22128	
5°	21909	22012	21794	21815	21778	###
15°	21204	20798	19322	16595	15333	5986
25°	19795	18375	11431	7334	5244	9125
35°	17743	12725	3463	1018	600	11099
45°	15086	7150	506	375	362	11622
55°	11686	1486	314	304	236	10419
65°	7420	163	188	156	125	7345
75°	2978	98	74	76	67	3232
85°	198	19	27	35	33	395
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-UNV-L750-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22128.3	22128.3	22128.3	22128.3	22128.3
2.5°	21974.3	22118.1	21997.0	22105.7	22201.9
5°	21908.7	22011.7	21794.3	21814.7	21778.4
7.5°	21795.4	21820.3	21427.4	21275.7	21202.1
10°	21643.7	21576.9	20949.6	20588.3	20331.3
12.5°	21452.3	21231.5	20355.1	19065.3	18296.5
15°	21204.3	20797.8	19322.4	16594.6	15333.1
17.5°	20908.8	20344.9	17612.5	13830.5	12738.9
20°	20588.3	19844.4	15382.9	11759.4	10699.6
22.5°	20210.1	19204.6	13183.9	9780.1	8325.0
25°	19794.6	18374.6	11431.0	7334.2	5243.9
27.5°	19346.2	17279.6	9808.4	4497.7	2835.4
30°	18825.3	15946.9	7971.7	2524.0	1823.1
32.5°	18316.9	14393.3	5694.6	1681.5	1165.2
35°	17742.8	12725.3	3462.7	1018.0	600.1
37.5°	17134.7	11209.1	2167.3	553.7	414.4
40°	16490.4	9771.0	1469.8	392.9	387.3
42.5°	15801.9	8470.0	920.6	373.7	386.1
45°	15086.3	7149.6	506.2	374.8	362.4
47.5°	14309.5	5716.1	353.3	354.4	353.3
50°	13495.3	4100.2	334.0	349.9	346.5
52.5°	12617.7	2545.5	335.2	342.0	306.9
55°	11685.8	1485.6	313.7	303.5	235.5
57.5°	10706.3	926.3	306.9	250.2	211.7
60°	9680.4	489.2	292.1	225.3	181.2
62.5°	8587.7	241.2	234.4	192.5	148.3
65°	7420.3	163.1	188.0	156.3	124.6
67.5°	6292.5	147.2	141.5	128.0	108.7
70°	5148.8	134.7	109.8	112.1	92.9
72.5°	4026.6	122.3	88.3	96.2	78.1
75°	2978.1	98.5	73.6	75.9	66.8
77.5°	2072.2	77.0	57.7	64.5	62.3
80°	1250.1	48.7	46.4	53.2	48.7
82.5°	605.8	31.7	36.2	41.9	38.5
85°	198.2	19.2	27.2	35.1	32.8
87.5°	24.9	11.3	22.6	30.6	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)