

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-CLI-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 (P23769)  
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-CLI-UNV-L750-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

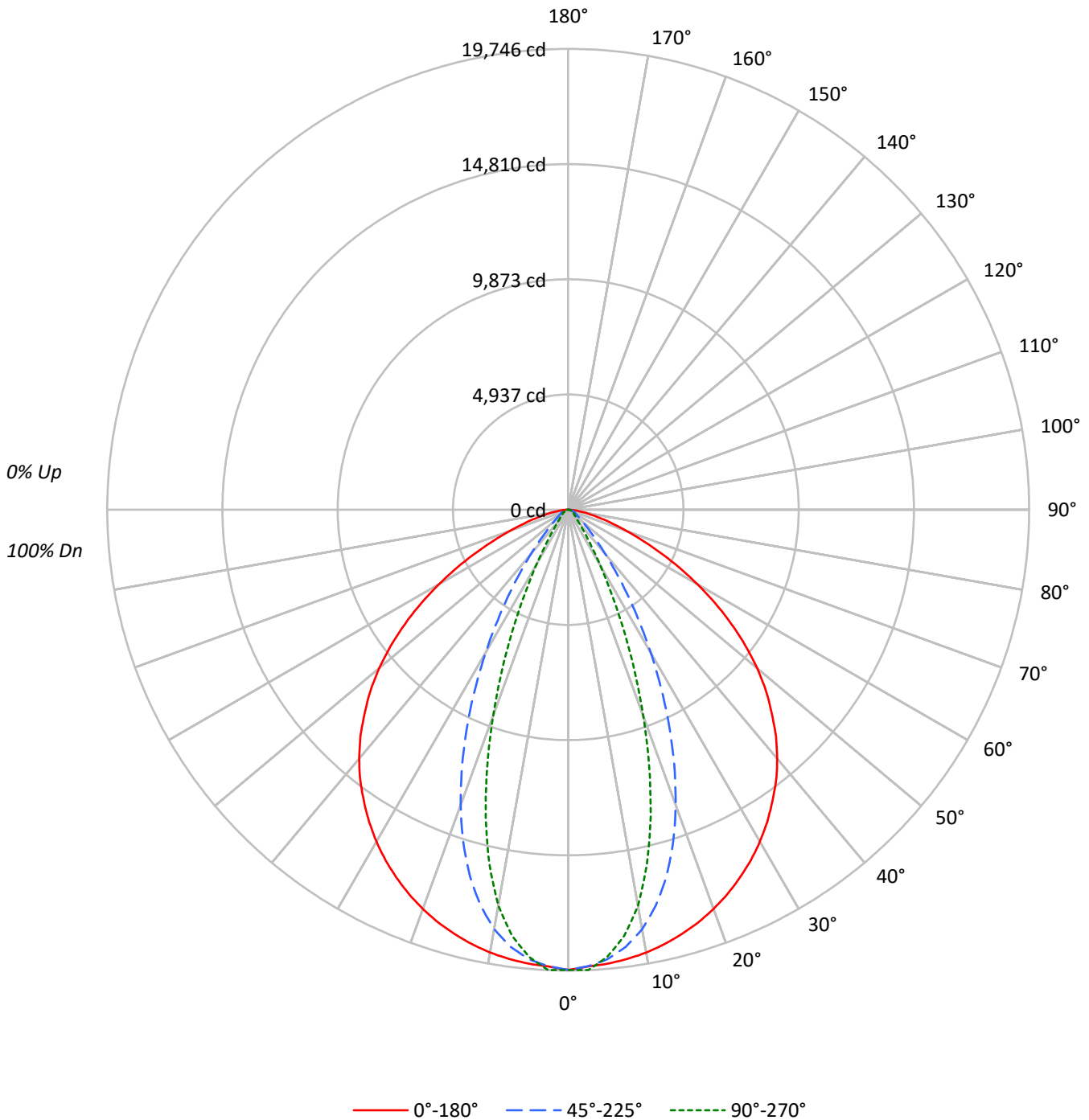
Lumens per Lamp: N/A  
Luminaire Lumens: 21588.0 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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-CLI-UNV-L750-ED2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-24HE-N-CLI-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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72				72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60				60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55				55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50				50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	26532	26532	26532
5°	26372	26110	25972
10°	26328	24928	23523
15°	26222	22659	18997
20°	26065	19281	13464
25°	25832	15203	8135
30°	25518	10973	4181
35°	25057	7174	2088
40°	24463	4309	1219
45°	23447	2573	911
50°	22114	1683	765
55°	20015	1277	668
60°	17200	1087	609
65°	13835	992	575
70°	10423	1062	572
75°	7667	1010	588
80°	5609	1006	644
85°	4201	1218	834



TEST NUMBER: P#

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1816.0	8.4
10°-20°	4517.9	20.9
20°-30°	5004.2	23.2
30°-40°	4009.3	18.6
40°-50°	2862.1	13.3
50°-60°	1838.4	8.5
60°-70°	996.3	4.6
70°-80°	425.8	2.0
80°-90°	118.1	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°	11338.1	52.5
0°-40°	15347.4	71.1
0°-60°	20047.8	92.9
0°-90°	21588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21588.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19719	19719	19719	19719	19719	
5°	19526	19599	19332	19270	19230	###
15°	18825	18236	16267	14375	13638	5311
25°	17400	15342	10241	6672	5480	8016
35°	15255	11034	4367	1762	1271	9538
45°	12322	6370	1352	575	479	9498
55°	8532	2848	544	334	285	7604
65°	4346	1170	312	215	181	4352
75°	1475	428	194	135	113	1639
85°	272	113	79	65	54	332
90°	0	0	0	0	0	



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19719.1	19719.1	19719.1	19719.1	19719.1
2.5°	19589.3	19711.8	19579.9	19662.0	19746.1
5°	19525.9	19598.6	19331.7	19270.4	19229.9
7.5°	19415.8	19395.0	18893.4	18568.3	18411.5
10°	19270.4	19102.1	18245.3	17530.7	17217.1
12.5°	19062.7	18715.8	17367.7	16113.0	15581.2
15°	18824.8	18235.9	16266.7	14375.4	13638.0
17.5°	18540.3	17675.1	14950.8	12512.2	11539.0
20°	18203.7	16997.9	13465.6	10532.6	9403.6
22.5°	17827.8	16216.9	11875.5	8559.2	7348.2
25°	17399.9	15342.4	10240.7	6672.0	5479.7
27.5°	16937.7	14371.3	8615.3	4985.3	3897.9
30°	16424.6	13320.2	7062.6	3594.6	2691.0
32.5°	15864.8	12202.6	5619.9	2528.0	1840.4
35°	15255.1	11034.2	4367.4	1761.5	1271.3
37.5°	14630.9	9841.9	3298.6	1245.3	911.9
40°	13927.8	8653.7	2453.2	911.9	693.8
42.5°	13172.7	7488.4	1815.5	702.1	561.9
45°	12322.1	6369.8	1352.3	575.4	478.8
47.5°	11497.4	5327.0	1027.2	490.2	416.5
50°	10564.8	4386.1	803.9	427.9	365.6
52.5°	9575.0	3558.3	652.2	377.0	322.0
55°	8532.2	2847.9	544.2	334.4	284.6
57.5°	7475.9	2255.9	465.3	298.1	253.4
60°	6391.6	1804.1	404.0	266.9	226.4
62.5°	5333.3	1442.6	353.1	239.9	202.5
65°	4345.6	1169.5	311.6	215.0	180.7
67.5°	3432.6	924.4	290.8	193.2	163.1
70°	2649.5	719.8	270.0	172.4	145.4
72.5°	2007.6	552.5	238.9	153.7	128.8
75°	1474.8	427.9	194.2	135.0	113.2
77.5°	1055.2	329.2	157.9	117.4	97.6
80°	723.9	245.1	129.8	100.7	83.1
82.5°	470.5	173.4	104.9	83.1	68.5
85°	272.1	113.2	78.9	65.4	54.0
87.5°	117.4	62.3	54.0	48.8	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)