

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-LD5-36HE-W-CL-UNV-L750-ED3-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-LD5-36HE-W-CL-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

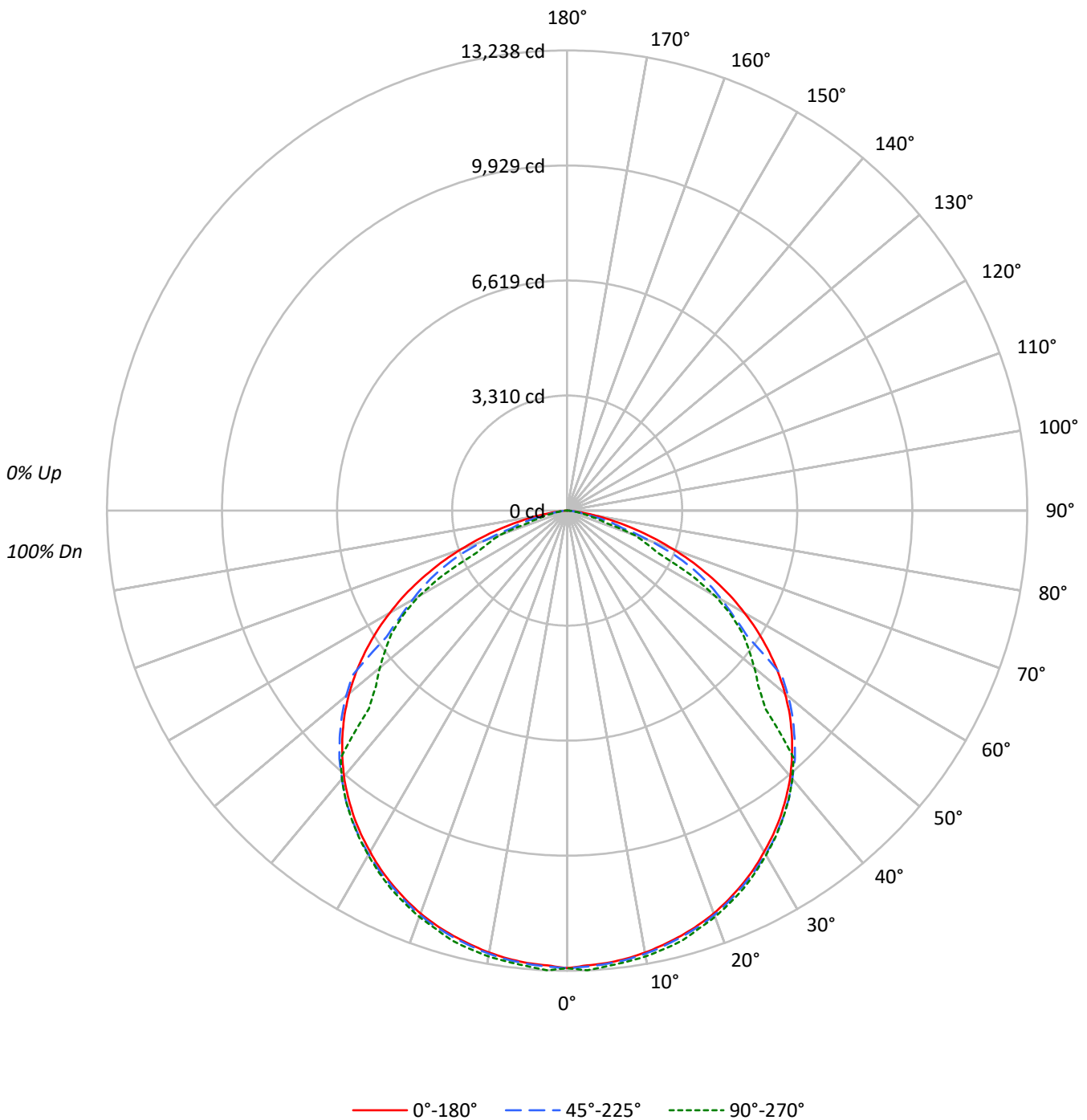
Lumens per Lamp: N/A  
Luminaire Lumens: 35579.0 lumens  
Efficiency: N/A  
Efficacy: 168.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 211.3  
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-LD5-36HE-W-CL-UNV-L750-ED3-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36HE-W-CL-UNV-L750-ED3-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°	17707	17707	17707
5°	17643	17682	17768
10°	17641	17692	17794
15°	17640	17694	17836
20°	17662	17729	17811
25°	17642	17709	17816
30°	17609	17738	17778
35°	17600	17761	17774
40°	17545	17700	17700
45°	17395	17605	15340
50°	17126	17385	14718
55°	16641	14881	14457
60°	15860	13833	13208
65°	14667	12840	9147
70°	12772	9991	8151
75°	10088	6706	4382
80°	6494	3203	2731
85°	2672	1954	2152



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36HE-W-CL-UNV-L750-ED3-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1248.4	3.5
10°-20°	3598.3	10.1
20°-30°	5516.7	15.5
30°-40°	6761.6	19.0
40°-50°	6951.5	19.5
50°-60°	5932.7	16.7
60°-70°	3922.2	11.0
70°-80°	1453.2	4.1
80°-90°	194.3	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°	10363.4	29.1
0°-40°	17125.1	48.1
0°-60°	30009.3	84.3
0°-90°	35579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13160	13160	13160	13160	13160	
5°	13063	13154	13092	13143	13156	###
15°	12664	12741	12702	12798	12805	3577
25°	11883	11946	11928	12036	12000	5479
35°	10715	10789	10813	10880	10821	6702
45°	9142	9233	9252	9238	8062	7045
55°	7094	7224	6344	6160	6163	6330
65°	4607	4645	4033	3317	2873	4543
75°	1940	1700	1290	867	843	2082
85°	173	123	127	138	139	286
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36HE-W-CL-UNV-L750-ED3-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13160.5	13160.5	13160.5	13160.5	13160.5
2.5°	13096.4	13178.2	13130.1	13191.0	13237.5
5°	13062.8	13154.1	13091.6	13142.9	13155.7
7.5°	13005.1	13090.0	13032.3	13099.6	13090.0
10°	12912.2	12989.1	12949.0	13019.5	13024.3
12.5°	12793.6	12870.5	12833.6	12920.2	12918.6
15°	12663.8	12740.7	12702.3	12798.4	12804.8
17.5°	12511.6	12582.1	12553.2	12641.4	12606.1
20°	12335.3	12396.2	12381.8	12465.1	12439.5
22.5°	12119.0	12181.5	12167.0	12263.2	12224.7
25°	11883.4	11945.9	11928.3	12035.7	12000.4
27.5°	11628.6	11687.9	11686.3	11787.3	11732.8
30°	11333.8	11412.3	11417.1	11506.9	11442.8
32.5°	11042.2	11115.9	11136.7	11202.4	11147.9
35°	10715.3	10789.0	10813.0	10880.3	10821.0
37.5°	10362.7	10425.2	10468.5	10518.2	10471.7
40°	9989.4	10045.5	10077.5	10138.4	10077.5
42.5°	9572.8	9652.9	9697.7	9741.0	9641.7
45°	9141.7	9233.0	9252.3	9237.9	8061.7
47.5°	8685.0	8784.4	8795.6	7670.7	7454.4
50°	8181.9	8306.9	8305.3	7089.0	7031.3
52.5°	7657.9	7778.1	7773.3	6633.9	6595.5
55°	7093.8	7223.6	6343.9	6159.6	6162.8
57.5°	6518.6	6611.5	5691.7	5699.7	5594.0
60°	5893.6	5981.8	5140.5	5090.8	4908.2
62.5°	5267.1	5304.0	4606.9	4364.9	4017.2
65°	4606.9	4645.4	4033.2	3317.0	2873.1
67.5°	3929.1	3967.6	3347.4	2467.7	2434.1
70°	3246.5	2932.4	2539.8	2055.9	2071.9
72.5°	2573.5	2253.0	1660.1	1592.8	1150.5
75°	1940.5	1700.1	1289.9	866.9	842.9
77.5°	1350.8	1171.4	690.6	591.3	552.8
80°	838.1	588.1	413.4	367.0	352.5
82.5°	424.6	338.1	224.3	224.3	224.3
85°	173.1	123.4	126.6	137.8	139.4
87.5°	36.9	49.7	60.9	62.5	60.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)