

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-A-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 (P23761)  
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-A-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

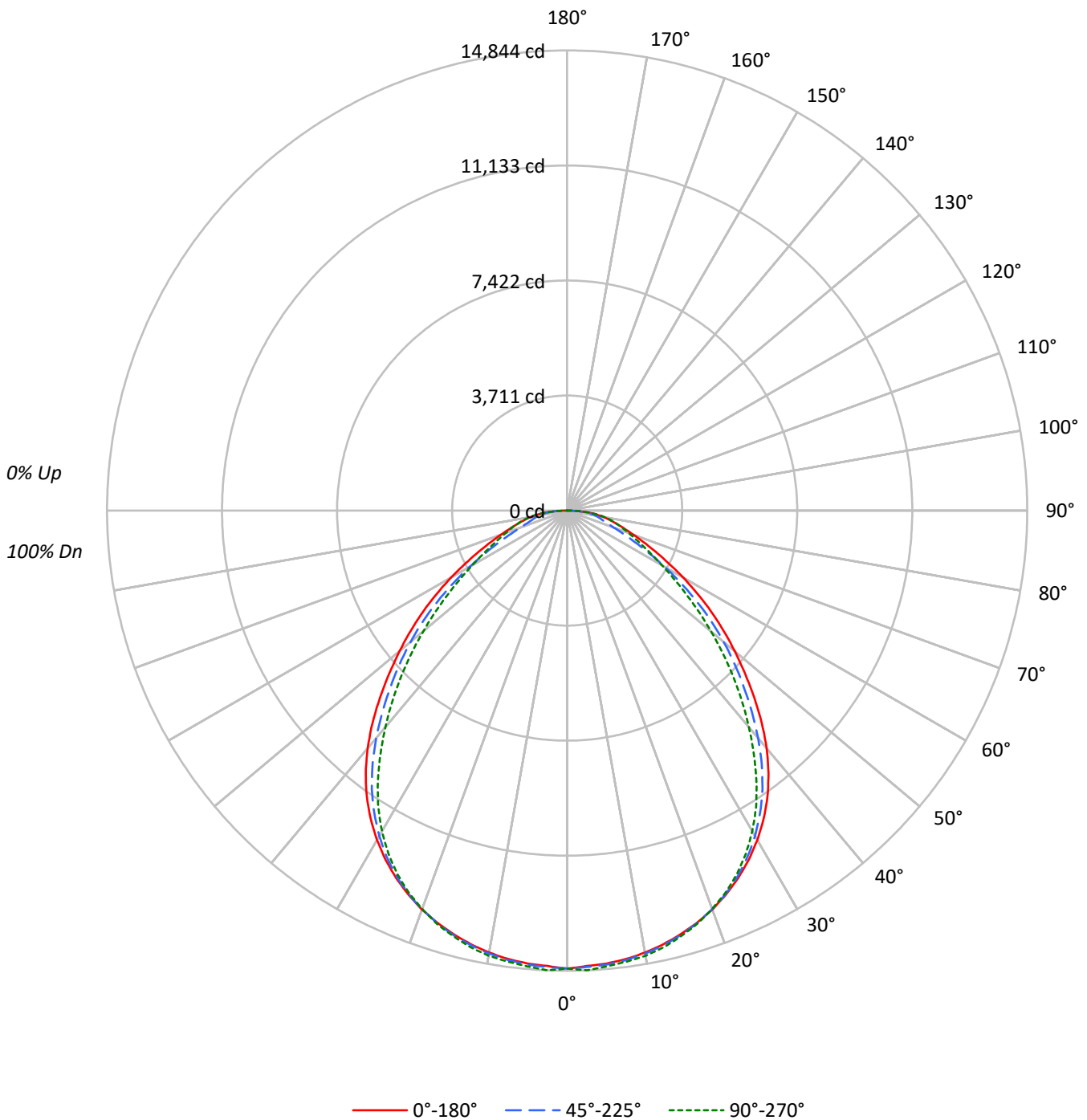
Lumens per Lamp: N/A  
Luminaire Lumens: 33934.0 lumens  
Efficiency: N/A  
Efficacy: 160.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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

	0°	45°	90°
0°	19876	19876	19876
5°	19805	19850	19931
10°	19777	19823	19923
15°	19711	19751	19797
20°	19608	19594	19579
25°	19395	19329	19220
30°	19060	18830	18555
35°	18506	18041	17486
40°	17586	16831	16023
45°	16246	15340	14411
50°	14768	13813	12676
55°	13279	11958	10958
60°	11620	9773	9509
65°	10019	7685	8582
70°	8933	6272	8271
75°	8557	6123	8643
80°	9255	7242	9630
85°	10390	8719	10493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1400.0	4.1
10°-20°	4006.8	11.8
20°-30°	5993.7	17.7
30°-40°	6838.4	20.2
40°-50°	6224.8	18.3
50°-60°	4570.8	13.5
60°-70°	2698.9	8.0
70°-80°	1546.7	4.6
80°-90°	654.0	1.9
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°	11400.5	33.6
0°-40°	18238.9	53.7
0°-60°	29034.5	85.6
0°-90°	33934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	14772	14772	14772	14772	14772	
5°	14664	14755	14697	14755	14757	###
15°	14151	14229	14179	14229	14212	3993
25°	13064	13111	13020	13014	12946	6014
35°	11267	11212	10984	10795	10646	7020
45°	8538	8488	8062	7700	7573	6580
55°	5661	5399	5098	4728	4671	5063
65°	3147	2747	2414	2582	2696	3167
75°	1646	1411	1178	1536	1663	1774
85°	673	621	565	666	680	704
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	14772.0	14772.0	14772.0	14772.0	14772.0
2.5°	14703.7	14788.7	14735.4	14793.7	14843.7
5°	14663.8	14755.4	14697.1	14755.4	14757.0
7.5°	14590.5	14675.4	14618.8	14682.1	14675.4
10°	14475.5	14560.5	14508.8	14577.1	14582.1
12.5°	14328.9	14410.5	14357.2	14435.5	14422.2
15°	14150.6	14228.9	14179.0	14228.9	14212.3
17.5°	13940.7	14012.4	13947.4	14002.4	13974.0
20°	13694.2	13754.1	13684.2	13735.8	13674.2
22.5°	13399.3	13452.6	13379.3	13407.6	13344.3
25°	13064.4	13111.1	13019.5	13014.5	12946.2
27.5°	12691.3	12716.3	12599.6	12559.7	12481.4
30°	12268.1	12274.8	12119.8	12044.9	11943.2
32.5°	11793.3	11776.7	11578.4	11466.8	11341.8
35°	11266.9	11211.9	10983.7	10795.4	10645.5
37.5°	10672.1	10585.5	10312.3	10034.1	9890.8
40°	10012.4	9910.8	9582.6	9237.7	9122.8
42.5°	9294.4	9207.7	8821.2	8461.4	8348.1
45°	8538.0	8488.1	8061.6	7700.1	7573.4
47.5°	7781.7	7745.0	7328.5	6960.4	6807.1
50°	7055.3	6975.4	6598.9	6195.7	6055.8
52.5°	6350.6	6187.4	5855.8	5442.7	5339.4
55°	5660.9	5399.4	5097.8	4728.0	4671.3
57.5°	4977.9	4639.7	4346.5	4069.9	4068.3
60°	4318.2	3931.7	3631.8	3486.8	3533.5
62.5°	3700.1	3303.6	2978.7	2988.7	3073.7
65°	3147.0	2747.2	2414.0	2582.2	2695.5
67.5°	2672.2	2290.7	1952.5	2265.7	2374.0
70°	2270.7	1925.8	1594.3	1985.8	2102.4
72.5°	1932.5	1642.6	1344.4	1752.6	1870.9
75°	1646.0	1411.1	1177.8	1536.0	1662.6
77.5°	1412.7	1204.5	1056.2	1329.4	1461.0
80°	1194.5	1011.2	934.6	1129.5	1242.8
82.5°	946.3	819.7	774.7	917.9	976.3
85°	673.0	621.4	564.8	666.4	679.7
87.5°	369.8	383.2	316.5	383.2	384.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)