

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-AI-UNV-L835-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 (P23765)  
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-AI-UNV-L835-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

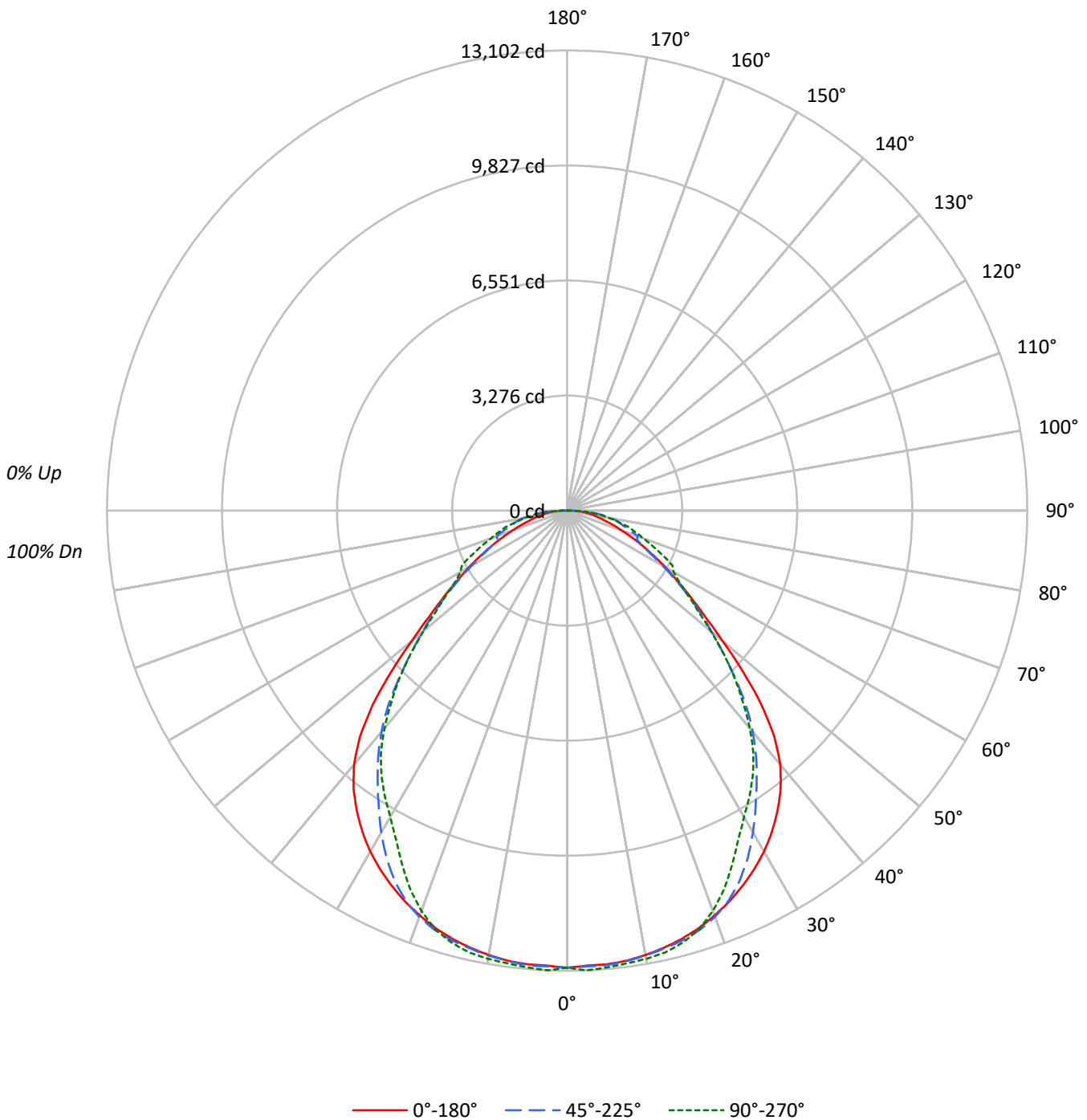
Lumens per Lamp: N/A  
Luminaire Lumens: 30125.0 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

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

	0°	45°	90°
0°	17511	17511	17511
5°	17511	17548	17634
10°	17554	17576	17705
15°	17581	17647	17733
20°	17563	17629	17367
25°	17519	17256	16506
30°	17416	16442	15641
35°	17153	15454	15132
40°	16580	14449	14211
45°	14902	12903	12855
50°	12087	11238	11161
55°	10036	9849	9846
60°	8689	8435	9431
65°	7531	7484	9506
70°	6493	8395	9062
75°	5823	8604	9447
80°	6052	10129	9478
85°	6871	11671	10830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1239.2	4.1
10°-20°	3578.9	11.9
20°-30°	5315.4	17.6
30°-40°	6034.5	20.0
40°-50°	5394.6	17.9
50°-60°	3729.8	12.4
60°-70°	2461.1	8.2
70°-80°	1660.4	5.5
80°-90°	711.1	2.4
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°	10133.5	33.6
0°-40°	16167.9	53.7
0°-60°	25292.3	84.0
0°-90°	30125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30125.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13015	13015	13015	13015	13015	
5°	12965	13044	12993	13046	13056	###
15°	12621	12682	12669	12739	12730	3563
25°	11800	11912	11624	11277	11118	5437
35°	10443	10224	9409	9272	9213	6512
45°	7832	7168	6781	6832	6756	5956
55°	4278	3906	4199	4140	4197	3886
65°	2365	2100	2351	2749	2986	2360
75°	1120	1409	1655	1768	1817	1223
85°	445	619	756	760	702	464
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13014.9	13014.9	13014.9	13014.9	13014.9
2.5°	12970.7	13051.8	12991.4	13047.4	13101.9
5°	12964.8	13044.4	12992.8	13045.9	13056.2
7.5°	12928.0	13001.7	12941.2	12992.8	13004.6
10°	12848.4	12935.3	12864.6	12944.2	12958.9
12.5°	12745.2	12833.7	12771.8	12880.8	12886.7
15°	12621.4	12681.9	12668.6	12739.3	12730.5
17.5°	12465.2	12534.5	12524.2	12541.8	12500.6
20°	12266.3	12344.4	12311.9	12230.9	12129.2
22.5°	12052.6	12146.9	12018.7	11813.8	11670.8
25°	11800.5	11912.5	11623.7	11277.3	11118.2
27.5°	11522.0	11622.2	11141.8	10717.3	10552.2
30°	11209.6	11252.3	10583.2	10179.4	10067.4
32.5°	10848.5	10786.6	9986.3	9719.6	9654.7
35°	10443.2	10223.6	9408.6	9271.5	9212.6
37.5°	9986.3	9584.0	8838.2	8774.9	8713.0
40°	9439.5	8845.6	8226.6	8185.4	8091.0
42.5°	8733.6	8042.4	7547.2	7498.6	7414.6
45°	7831.7	7168.5	6780.9	6832.4	6755.8
47.5°	6794.1	6291.6	6045.4	6186.9	6045.4
50°	5774.3	5436.8	5369.0	5497.2	5332.1
52.5°	4938.6	4635.0	4775.0	4797.1	4698.4
55°	4278.4	3905.5	4198.8	4139.8	4197.3
57.5°	3703.6	3286.5	3647.6	3579.8	3777.3
60°	3229.0	2760.4	3134.7	3120.0	3504.6
62.5°	2763.3	2389.0	2689.6	2906.3	3379.4
65°	2365.4	2100.1	2350.7	2748.6	2985.9
67.5°	1983.7	1883.5	2150.2	2371.3	2630.7
70°	1650.6	1702.2	2134.0	2092.8	2303.5
72.5°	1370.6	1546.0	1883.5	1890.9	2039.7
75°	1120.1	1408.9	1655.1	1768.5	1817.2
77.5°	931.4	1277.8	1494.4	1534.2	1487.0
80°	781.1	1126.0	1307.2	1289.6	1223.2
82.5°	630.8	853.3	1030.2	1046.4	968.3
85°	445.1	619.0	756.0	760.5	701.5
87.5°	238.8	381.7	458.3	471.6	436.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)