

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-L735-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-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

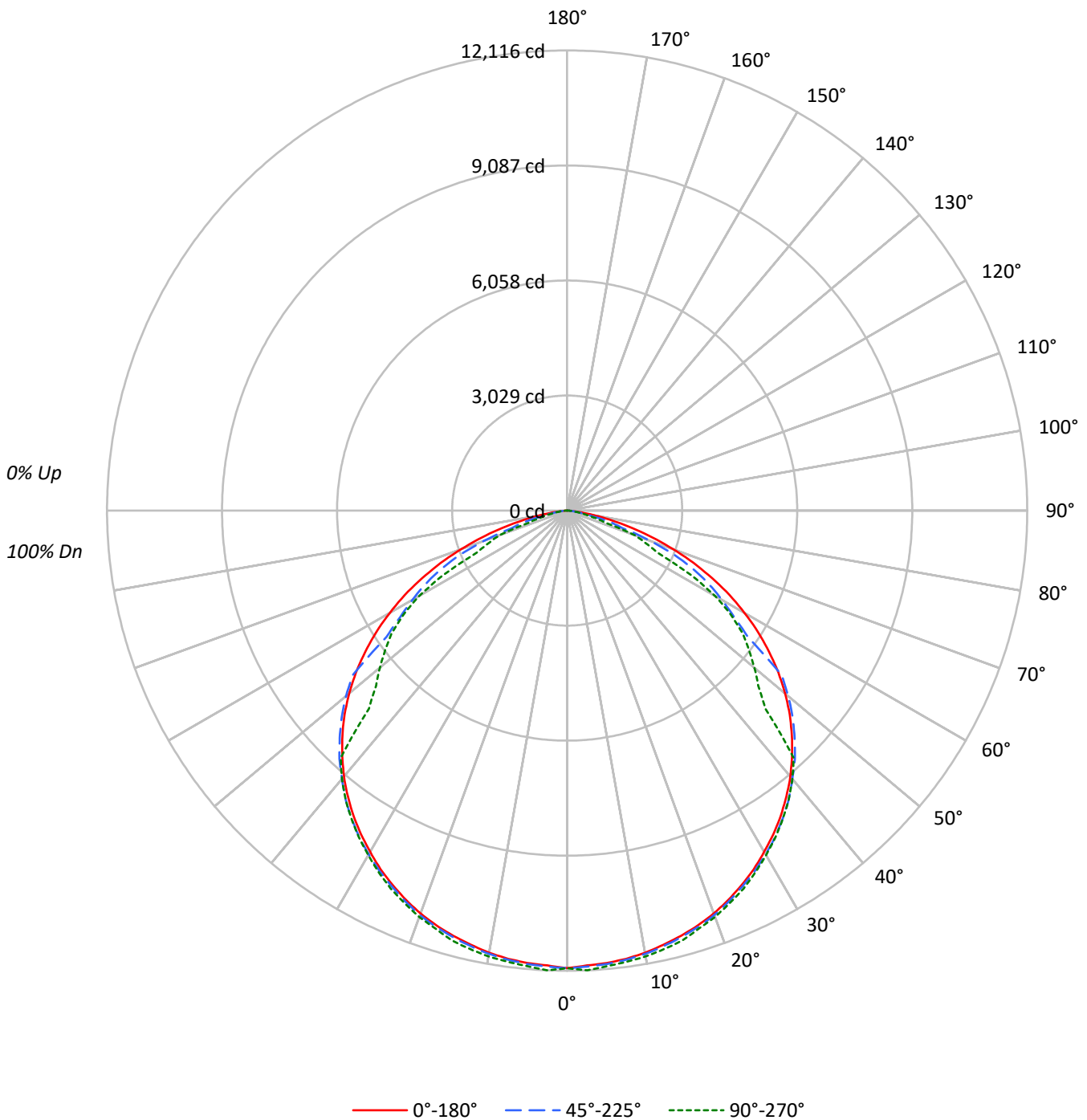
Lumens per Lamp: N/A  
Luminaire Lumens: 32566.0 lumens  
Efficiency: N/A  
Efficacy: 154.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



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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	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°	16208	16208	16208
5°	16149	16185	16264
10°	16147	16193	16288
15°	16146	16195	16326
20°	16166	16227	16303
25°	16148	16209	16307
30°	16117	16236	16272
35°	16110	16257	16269
40°	16060	16201	16201
45°	15922	16114	14041
50°	15676	15912	13472
55°	15231	13621	13232
60°	14516	12662	12089
65°	13425	11753	8372
70°	11690	9145	7460
75°	9234	6138	4011
80°	5944	2932	2500
85°	2445	1789	1970



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1142.7	3.5
10°-20°	3293.6	10.1
20°-30°	5049.6	15.5
30°-40°	6189.0	19.0
40°-50°	6362.8	19.5
50°-60°	5430.3	16.7
60°-70°	3590.1	11.0
70°-80°	1330.1	4.1
80°-90°	177.9	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°	9485.8	29.1
0°-40°	15674.8	48.1
0°-60°	27467.9	84.3
0°-90°	32566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32566.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12046	12046	12046	12046	12046	
5°	11957	12040	11983	12030	12042	###
15°	11591	11662	11627	11715	11720	3274
25°	10877	10934	10918	11016	10984	5015
35°	9808	9875	9897	9959	9905	6135
45°	8368	8451	8469	8456	7379	6448
55°	6493	6612	5807	5638	5641	5794
65°	4217	4252	3692	3036	2630	4158
75°	1776	1556	1181	794	772	1906
85°	158	113	116	126	128	262
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12046.0	12046.0	12046.0	12046.0	12046.0
2.5°	11987.4	12062.2	12018.2	12073.9	12116.4
5°	11956.6	12040.2	11983.0	12029.9	12041.6
7.5°	11903.8	11981.5	11928.7	11990.3	11981.5
10°	11818.7	11889.1	11852.4	11917.0	11921.4
12.5°	11710.2	11780.6	11746.8	11826.0	11824.6
15°	11591.4	11661.8	11626.6	11714.6	11720.4
17.5°	11452.0	11516.6	11490.2	11570.8	11538.6
20°	11290.7	11346.4	11333.2	11409.5	11386.0
22.5°	11092.7	11149.9	11136.7	11224.7	11189.5
25°	10877.1	10934.3	10918.1	11016.4	10984.1
27.5°	10643.9	10698.1	10696.7	10789.1	10739.2
30°	10374.0	10445.9	10450.3	10532.4	10473.7
32.5°	10107.1	10174.5	10193.6	10253.7	10203.9
35°	9807.9	9875.3	9897.3	9958.9	9904.7
37.5°	9485.2	9542.4	9582.0	9627.4	9584.9
40°	9143.4	9194.8	9224.1	9279.8	9224.1
42.5°	8762.1	8835.4	8876.5	8916.1	8825.2
45°	8367.5	8451.1	8468.7	8455.5	7379.0
47.5°	7949.5	8040.5	8050.7	7021.1	6823.1
50°	7489.0	7603.4	7601.9	6488.7	6435.9
52.5°	7009.4	7119.4	7115.0	6072.2	6037.0
55°	6493.1	6611.9	5806.7	5638.0	5640.9
57.5°	5966.6	6051.6	5209.7	5217.1	5120.3
60°	5394.5	5475.2	4705.2	4659.7	4492.5
62.5°	4821.1	4854.8	4216.8	3995.3	3677.0
65°	4216.8	4252.0	3691.7	3036.1	2629.8
67.5°	3596.4	3631.6	3063.9	2258.7	2227.9
70°	2971.5	2684.1	2324.7	1881.8	1896.4
72.5°	2355.5	2062.2	1519.5	1457.9	1053.1
75°	1776.2	1556.2	1180.7	793.5	771.5
77.5°	1236.4	1072.2	632.1	541.2	506.0
80°	767.1	538.3	378.4	335.9	322.7
82.5°	388.7	309.5	205.3	205.3	205.3
85°	158.4	112.9	115.9	126.1	127.6
87.5°	33.7	45.5	55.7	57.2	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)