

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-CLWG-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36HE-W-CLWG-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32198.0 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

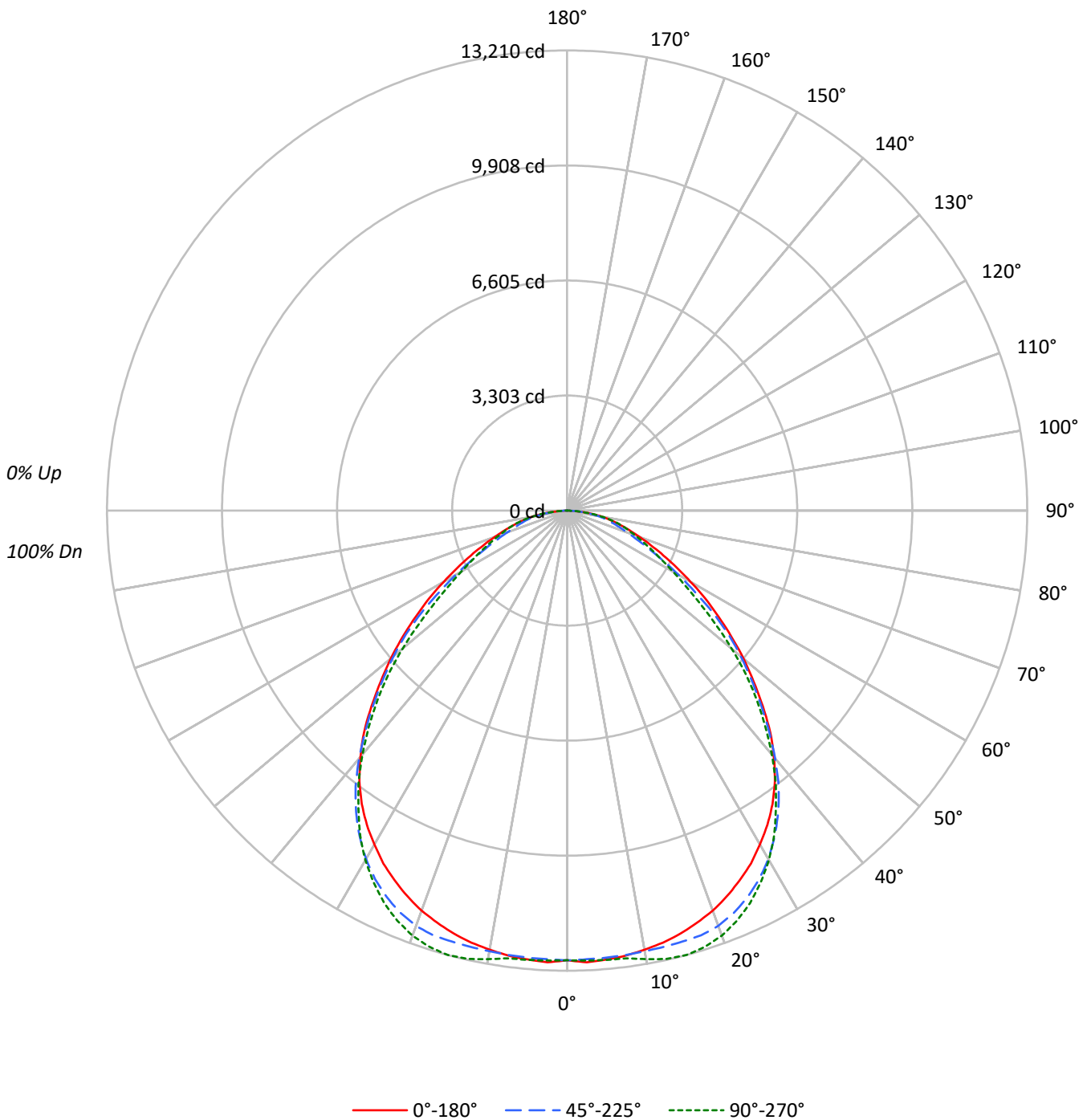
Input Watts (W): 211.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P#

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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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88				86	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73	
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65				63	
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57				55	
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50				48	
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44				42	
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40				38	
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36				34	
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32				31	
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30				28	

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

	0°	45°	90°
0°	17371	17371	17371
5°	17473	17401	17487
10°	17489	17548	17862
15°	17511	17840	18401
20°	17499	18166	18591
25°	17392	18183	18450
30°	17192	17942	17999
35°	16885	17361	17153
40°	16219	16318	16061
45°	15112	14954	14650
50°	13836	13613	12916
55°	12428	11967	10921
60°	11022	9902	9427
65°	9711	8227	8556
70°	8685	7140	8148
75°	8136	6942	8240
80°	7921	7018	7844
85°	6323	5551	5758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1229.9	3.8
10°-20°	3622.6	11.3
20°-30°	5573.0	17.3
30°-40°	6504.0	20.2
40°-50°	6043.9	18.8
50°-60°	4480.0	13.9
60°-70°	2738.7	8.5
70°-80°	1559.9	4.8
80°-90°	446.2	1.4
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°	10425.4	32.4
0°-40°	16929.4	52.6
0°-60°	27453.2	85.3
0°-90°	32198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32198.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12910	12910	12910	12910	12910	
5°	12937	12877	12884	12874	12947	###
15°	12571	12564	12807	13060	13210	3548
25°	11715	11805	12248	12351	12428	5396
35°	10280	10360	10570	10483	10443	6405
45°	7942	7989	7859	7736	7699	6120
55°	5298	5165	5102	4739	4655	4755
65°	3050	2771	2584	2654	2687	3053
75°	1565	1468	1335	1522	1585	1675
85°	410	400	360	373	373	472
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12910.5	12910.5	12910.5	12910.5	12910.5
2.5°	12980.4	12907.1	12893.8	12863.8	12930.4
5°	12937.1	12877.2	12883.8	12873.8	12947.1
7.5°	12887.2	12843.9	12870.5	12867.2	12963.7
10°	12800.6	12777.3	12843.9	12917.1	13073.6
12.5°	12704.0	12680.7	12827.2	13013.7	13183.5
15°	12570.8	12564.1	12807.2	13060.3	13210.2
17.5°	12404.3	12414.3	12783.9	13000.4	13133.6
20°	12221.2	12237.8	12687.4	12863.8	12983.7
22.5°	11984.7	12041.3	12500.9	12647.4	12740.6
25°	11715.0	11804.9	12247.8	12351.0	12427.6
27.5°	11425.3	11515.2	11934.8	11988.1	12031.3
30°	11065.6	11192.2	11548.5	11555.2	11585.1
32.5°	10699.3	10812.6	11085.6	11055.7	11062.3
35°	10279.8	10359.7	10569.5	10482.9	10442.9
37.5°	9796.9	9840.2	9973.4	9843.5	9836.9
40°	9234.1	9290.7	9290.7	9110.9	9144.2
42.5°	8634.7	8654.7	8571.5	8401.6	8428.3
45°	7942.1	7988.7	7858.8	7735.6	7699.0
47.5°	7256.1	7302.7	7166.2	7023.0	6959.7
50°	6610.1	6586.8	6503.5	6260.4	6170.5
52.5°	5940.7	5867.5	5834.2	5477.9	5374.6
55°	5298.1	5164.9	5101.6	4738.6	4655.4
57.5°	4702.0	4462.2	4342.3	4059.3	4026.0
60°	4095.9	3826.2	3679.7	3496.5	3503.2
62.5°	3546.5	3263.4	3086.9	3033.6	3057.0
65°	3050.3	2770.6	2584.1	2654.0	2687.3
67.5°	2600.7	2371.0	2161.2	2324.4	2357.7
70°	2207.8	2024.6	1814.9	2054.6	2071.3
72.5°	1881.5	1731.6	1555.1	1781.6	1818.2
75°	1565.1	1468.5	1335.3	1521.8	1585.1
77.5°	1288.7	1212.1	1135.5	1248.8	1318.7
80°	1022.3	945.7	905.8	965.7	1012.3
82.5°	722.6	672.7	632.7	676.0	699.3
85°	409.6	399.6	359.6	373.0	373.0
87.5°	93.2	106.6	119.9	109.9	93.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)