

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-LD5-36SE-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-LD5-36SE-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**

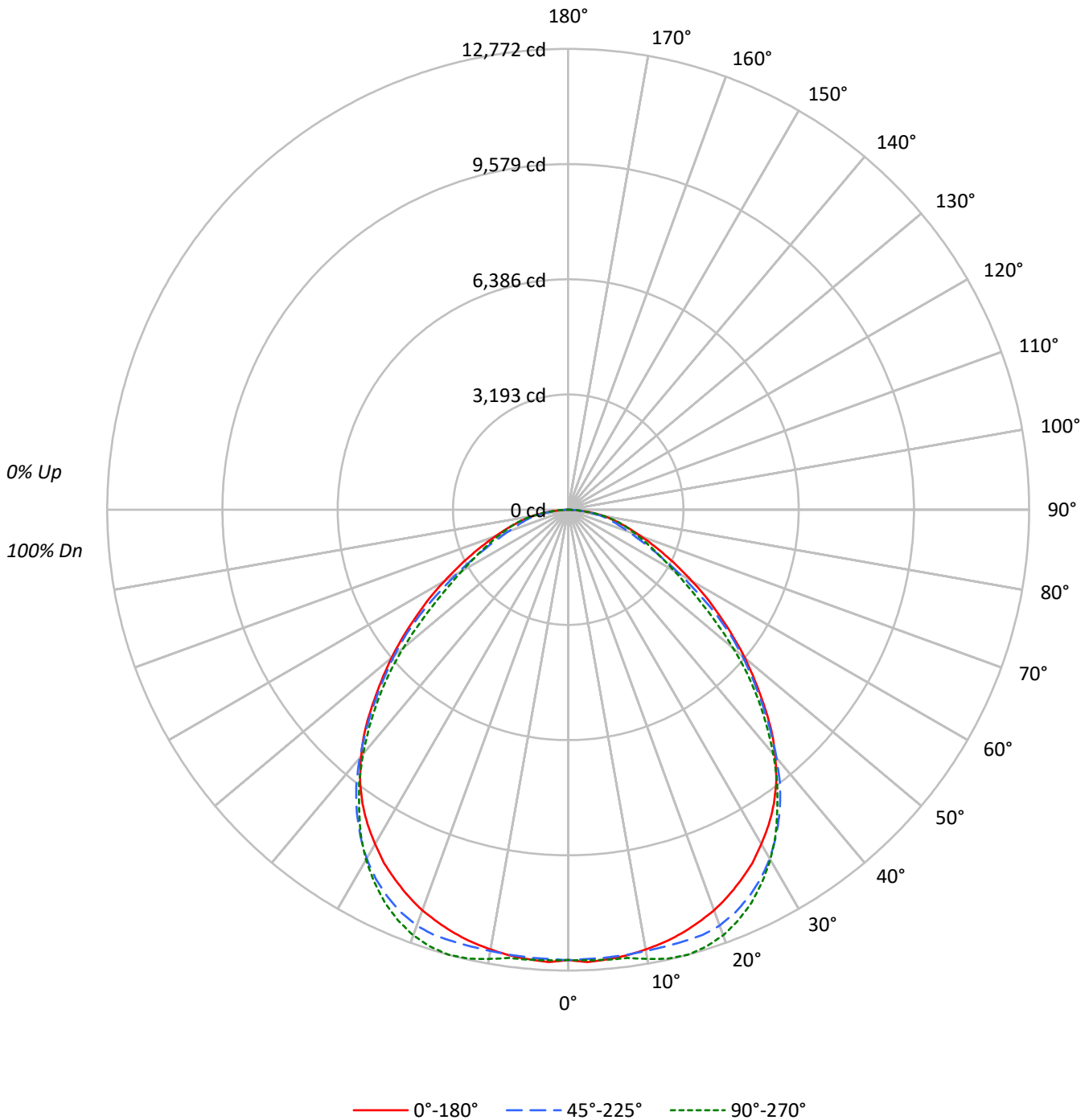
Lumens per Lamp: N/A  
Luminaire Lumens: 31129.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 232  
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





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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	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°	16794	16794	16794
5°	16893	16824	16906
10°	16908	16965	17269
15°	16929	17248	17790
20°	16918	17563	17973
25°	16814	17579	17837
30°	16621	17347	17402
35°	16324	16784	16583
40°	15681	15777	15528
45°	14611	14457	14163
50°	13377	13161	12487
55°	12016	11570	10558
60°	10656	9573	9114
65°	9389	7954	8272
70°	8397	6903	7878
75°	7866	6711	7967
80°	7658	6785	7583
85°	6113	5368	5567



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1189.0	3.8
10°-20°	3502.3	11.3
20°-30°	5387.9	17.3
30°-40°	6288.0	20.2
40°-50°	5843.2	18.8
50°-60°	4331.2	13.9
60°-70°	2647.7	8.5
70°-80°	1508.1	4.8
80°-90°	431.3	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°	10079.3	32.4
0°-40°	16367.3	52.6
0°-60°	26541.8	85.3
0°-90°	31129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31129.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12482	12482	12482	12482	12482	
5°	12508	12450	12456	12446	12517	###
15°	12153	12147	12382	12627	12772	3431
25°	11326	11413	11841	11941	12015	5217
35°	9938	10016	10219	10135	10096	6192
45°	7678	7724	7598	7479	7443	5917
55°	5122	4993	4932	4581	4501	4597
65°	2949	2679	2498	2566	2598	2951
75°	1513	1420	1291	1471	1532	1619
85°	396	386	348	361	361	457
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12481.8	12481.8	12481.8	12481.8	<i>12481.8</i>
2.5°	12549.4	12478.6	12465.7	12436.8	<i>12501.1</i>
5°	12507.6	12449.6	12456.1	12446.4	<i>12517.2</i>
7.5°	12459.3	12417.4	12443.2	12440.0	<i>12533.3</i>
10°	12375.6	12353.1	12417.4	12488.3	<i>12639.6</i>
12.5°	12282.2	12259.7	12401.3	12581.6	<i>12745.8</i>
15°	<i>12153.4</i>	<i>12147.0</i>	<i>12382.0</i>	<i>12626.7</i>	<i>12771.6</i>
17.5°	11992.5	12002.1	12359.5	12568.8	<i>12697.5</i>
20°	11815.4	11831.5	12266.1	12436.8	<i>12552.7</i>
22.5°	11586.8	11641.6	12085.8	12227.5	<i>12317.6</i>
25°	11326.0	11413.0	11841.2	11941.0	<i>12015.0</i>
27.5°	11046.0	11132.9	11538.5	11590.0	<i>11631.9</i>
30°	10698.3	10820.6	11165.1	11171.5	<i>11200.5</i>
32.5°	10344.1	10453.6	10717.6	10688.6	<i>10695.0</i>
35°	9938.5	10015.7	10218.6	10134.8	<i>10096.2</i>
37.5°	9471.6	9513.5	9642.3	9516.7	<i>9510.3</i>
40°	8927.6	8982.3	8982.3	8808.4	<i>8840.6</i>
42.5°	8348.0	8367.4	8286.9	8122.7	<i>8148.4</i>
45°	7678.4	7723.5	7597.9	7478.8	<i>7443.4</i>
47.5°	7015.2	7060.3	6928.3	6789.8	<i>6728.7</i>
50°	6390.6	6368.1	6287.6	6052.6	<i>5965.7</i>
52.5°	5743.5	5672.7	5640.5	5296.0	<i>5196.2</i>
55°	5122.2	4993.4	4932.2	4581.3	<i>4500.8</i>
57.5°	4545.9	4314.1	4198.2	3924.5	<i>3892.3</i>
60°	3959.9	3699.2	3557.5	3380.4	<i>3386.9</i>
62.5°	3428.7	3155.1	2984.4	2932.9	<i>2955.5</i>
65°	2949.0	2678.6	2498.3	2565.9	<i>2598.1</i>
67.5°	2514.4	2292.3	2089.4	2247.2	<i>2279.4</i>
70°	2134.5	1957.4	1754.6	1986.4	<i>2002.5</i>
72.5°	1819.0	1674.1	1503.5	1722.4	<i>1757.8</i>
75°	1513.1	1419.8	1291.0	1471.3	<i>1532.5</i>
77.5°	1245.9	1171.9	1097.8	1207.3	<i>1274.9</i>
80°	988.4	914.3	875.7	933.6	<i>978.7</i>
82.5°	698.6	650.3	611.7	653.5	<i>676.1</i>
85°	396.0	386.3	347.7	360.6	<i>360.6</i>
87.5°	90.1	103.0	115.9	106.2	<i>90.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)