

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-AWG-UNV-L740-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 (P23764)  
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-AWG-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

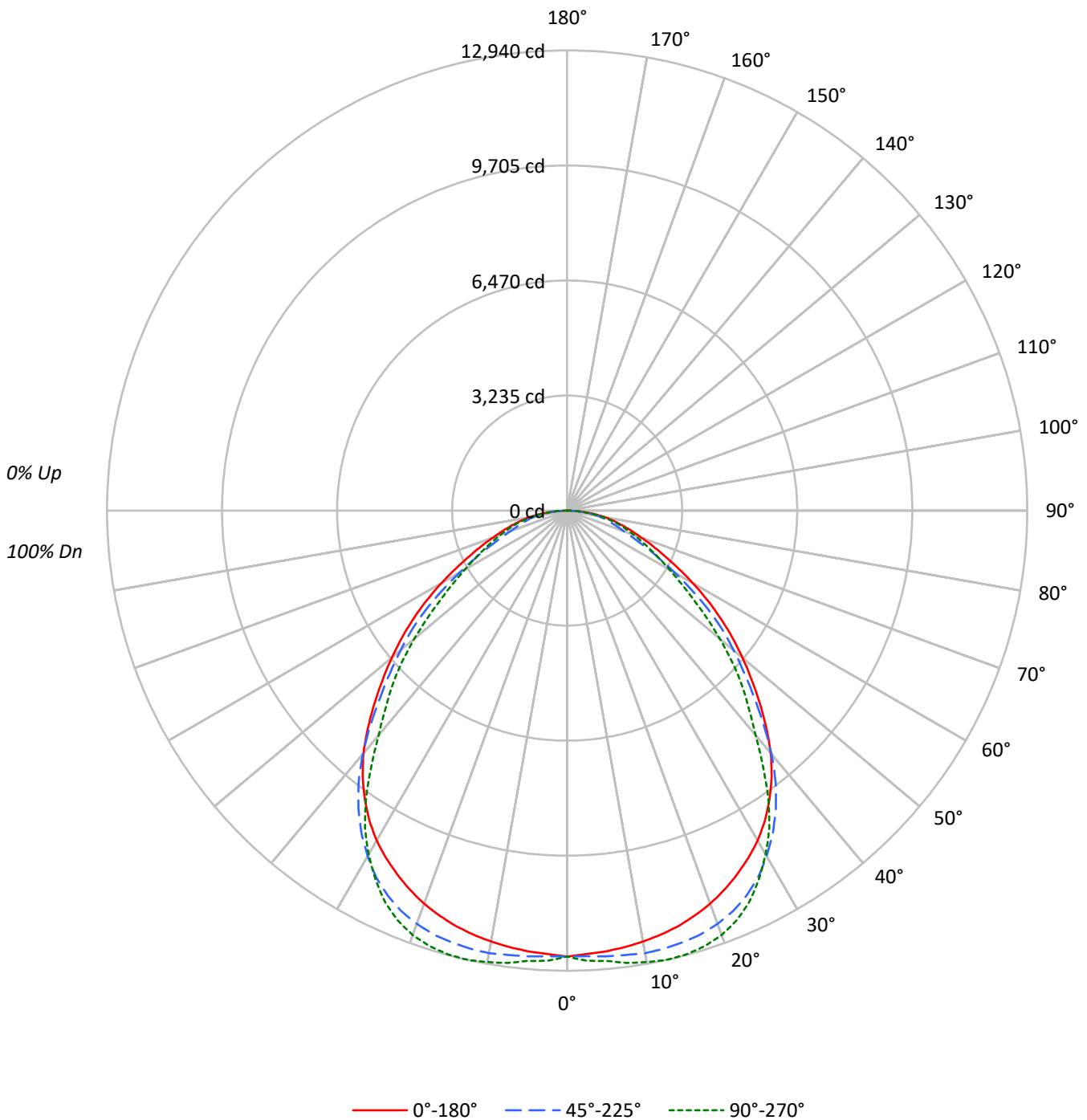
Lumens per Lamp: N/A  
Luminaire Lumens: 31086.0 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	16872	16872	16872
5°	16807	16995	17168
10°	16811	17268	17615
15°	16844	17507	18000
20°	16840	17708	18184
25°	16767	17731	18018
30°	16643	17436	17344
35°	16290	16805	16193
40°	15653	15698	14477
45°	14570	14153	13234
50°	13467	12798	11727
55°	12328	11342	10119
60°	10993	9414	8936
65°	9641	7748	8211
70°	8705	6674	7818
75°	8320	6541	7796
80°	8387	6925	7607
85°	7430	6343	6640



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1204.6	3.9
10°-20°	3549.9	11.4
20°-30°	5445.0	17.5
30°-40°	6262.5	20.1
40°-50°	5711.9	18.4
50°-60°	4281.1	13.8
60°-70°	2633.4	8.5
70°-80°	1509.1	4.9
80°-90°	488.6	1.6
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°	10199.4	32.8
0°-40°	16462.0	53.0
0°-60°	26454.9	85.1
0°-90°	31086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31086.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12540	12540	12540	12540	12540	
5°	12444	12570	12583	12687	12711	###
15°	12092	12361	12569	12837	12922	3413
25°	11294	11619	11944	12127	12137	5204
35°	9918	10111	10231	10063	9859	6185
45°	7657	7823	7438	7054	6955	5909
55°	5255	5060	4835	4408	4314	4695
65°	3028	2708	2434	2509	2579	3045
75°	1600	1434	1258	1441	1500	1711
85°	481	454	411	433	430	537
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12539.8	12539.8	12539.8	12539.8	<i>12539.8</i>
2.5°	12480.7	12570.2	12541.4	12615.0	<i>12669.3</i>
5°	12443.9	12570.2	12583.0	12686.9	<i>12710.9</i>
7.5°	12381.6	12546.2	12603.8	12787.7	<i>12829.2</i>
10°	12304.8	12503.1	12639.0	12837.2	<i>12893.2</i>
12.5°	<i>12212.1</i>	<i>12442.3</i>	<i>12615.0</i>	<i>12859.6</i>	<i>12939.6</i>
15°	12092.2	12360.8	12568.6	12837.2	<i>12922.0</i>
17.5°	11940.3	12252.0	12495.1	12758.9	<i>12846.8</i>
20°	11761.2	12090.6	12367.2	12637.4	<i>12699.7</i>
22.5°	11545.3	11876.3	12191.3	12434.3	<i>12467.9</i>
25°	11294.3	11618.9	11943.5	12127.3	<i>12136.9</i>
27.5°	11020.9	11323.1	11626.9	11726.0	<i>11682.8</i>
30°	10712.3	10982.6	11222.4	11243.2	<i>11163.2</i>
32.5°	10346.2	10589.2	10760.3	10715.5	<i>10581.2</i>
35°	9917.7	10111.2	10231.1	10063.2	<i>9858.6</i>
37.5°	9447.6	9593.1	9633.1	9268.6	<i>9035.1</i>
40°	8912.0	9036.7	8937.6	8430.8	<i>8242.1</i>
42.5°	8294.9	8438.8	8184.6	7684.1	<i>7569.0</i>
45°	7656.9	7823.2	7437.9	7054.2	<i>6955.0</i>
47.5°	7031.8	7183.7	6747.2	6438.6	<i>6291.5</i>
50°	6433.8	6499.4	6114.0	5765.5	<i>5602.4</i>
52.5°	5845.4	5779.9	5506.5	5073.2	<i>4929.3</i>
55°	5255.4	5060.4	4834.9	4408.0	<i>4313.7</i>
57.5°	4663.9	4392.1	4145.8	3818.1	<i>3781.3</i>
60°	4085.1	3750.9	3498.3	3303.2	<i>3320.8</i>
62.5°	3533.5	3192.9	2922.7	2860.4	<i>2927.5</i>
65°	3028.2	2708.5	2433.5	2508.6	<i>2579.0</i>
67.5°	2607.7	2300.8	2021.0	2212.8	<i>2268.8</i>
70°	2212.8	1965.0	1696.4	1944.2	<i>1987.4</i>
72.5°	1897.8	1686.8	1453.4	1694.8	<i>1731.6</i>
75°	1600.5	1434.2	1258.3	1440.6	<i>1499.7</i>
77.5°	1341.4	1203.9	1084.0	1191.1	<i>1255.1</i>
80°	1082.4	965.7	893.8	941.7	<i>981.7</i>
82.5°	793.0	717.9	665.1	685.9	<i>692.3</i>
85°	481.3	454.1	410.9	433.3	<i>430.1</i>
87.5°	158.3	180.7	190.3	171.1	<i>161.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)