

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-N-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 (P23768)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36SE-N-CL-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

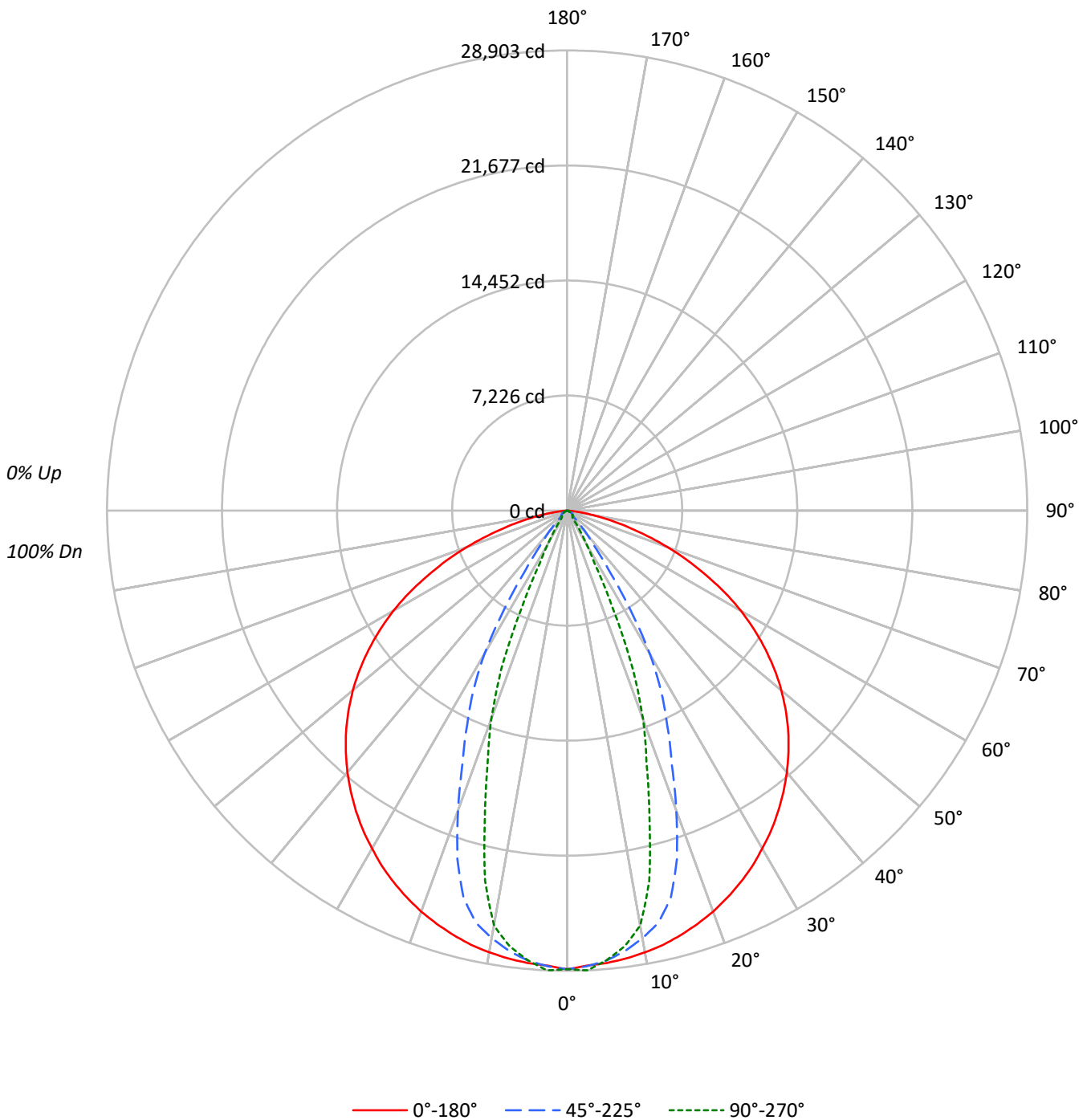
Lumens per Lamp: N/A  
Luminaire Lumens: 30809.0 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 232  
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

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

	0°	45°	90°
0°	38760	38760	38760
5°	38522	38321	38293
10°	38496	37261	36162
15°	38452	35039	27805
20°	38377	28674	19944
25°	38256	22092	10135
30°	38075	16123	3687
35°	37939	7404	1283
40°	37706	3361	885
45°	37371	1254	898
50°	36775	910	944
55°	35686	958	719
60°	33912	1023	635
65°	30754	779	516
70°	26368	563	476
75°	20154	498	452
80°	12610	468	491
85°	3983	546	659



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2681.9	8.7
10°-20°	6756.0	21.9
20°-30°	7357.6	23.9
30°-40°	5503.9	17.9
40°-50°	3957.4	12.8
50°-60°	2430.4	7.9
60°-70°	1398.5	4.5
70°-80°	624.2	2.0
80°-90°	99.0	0.3
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°	16795.5	54.5
0°-40°	22299.4	72.4
0°-60°	28687.3	93.1
0°-90°	30809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30809.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28807	28807	28807	28807	28807	
5°	28521	28655	28372	28399	28352	###
15°	27604	27075	25154	21603	19961	7792
25°	25769	23920	14881	9548	6827	11879
35°	23098	16566	4508	1325	781	14448
45°	19640	9308	659	488	472	15130
55°	15213	1934	408	395	307	13563
65°	9660	212	245	203	162	9562
75°	3877	128	96	99	87	4207
85°	258	25	35	46	43	514
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	28807.2	28807.2	28807.2	28807.2	28807.2
2.5°	28606.8	28794.0	28636.2	28777.7	28903.0
5°	28521.3	28655.4	28372.4	28398.9	28351.7
7.5°	28373.8	28406.3	27894.8	27697.2	27601.4
10°	28176.3	28089.3	27272.7	26802.4	26467.8
12.5°	27927.2	27639.7	26498.8	24819.7	23818.8
15°	27604.4	27075.1	25154.4	21603.2	19961.0
17.5°	27219.6	26485.5	22928.4	18004.9	16583.8
20°	26802.4	25833.9	20025.9	15308.7	13928.9
22.5°	26310.1	25001.1	17163.2	12732.0	10837.7
25°	25769.1	23920.5	14881.2	9547.9	6826.6
27.5°	25185.3	22495.1	12768.8	5855.2	3691.2
30°	24507.2	20760.0	10377.8	3285.8	2373.3
32.5°	23845.3	18737.5	7413.3	2189.1	1516.9
35°	23098.0	16566.1	4507.9	1325.2	781.3
37.5°	22306.4	14592.3	2821.5	720.8	539.5
40°	21467.6	12720.2	1913.4	511.5	504.1
42.5°	20571.3	11026.4	1198.5	486.5	502.7
45°	19639.7	9307.6	658.9	487.9	471.7
47.5°	18628.4	7441.4	459.9	461.4	459.9
50°	17568.5	5337.8	434.9	455.5	451.1
52.5°	16426.1	3313.8	436.3	445.2	399.5
55°	15212.9	1934.0	408.3	395.1	306.6
57.5°	13937.8	1205.8	399.5	325.8	275.7
60°	12602.2	636.8	380.3	293.3	235.9
62.5°	11179.7	314.0	305.1	250.6	193.1
65°	9659.9	212.3	244.7	203.4	162.2
67.5°	8191.7	191.6	184.3	166.6	141.5
70°	6702.8	175.4	143.0	145.9	120.9
72.5°	5242.0	159.2	115.0	125.3	101.7
75°	3876.9	128.2	95.8	98.8	87.0
77.5°	2697.6	100.2	75.2	84.0	81.1
80°	1627.4	63.4	60.4	69.3	63.4
82.5°	788.7	41.3	47.2	54.5	50.1
85°	258.0	25.1	35.4	45.7	42.7
87.5°	32.4	14.7	29.5	39.8	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)