

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-L835-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-L835-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

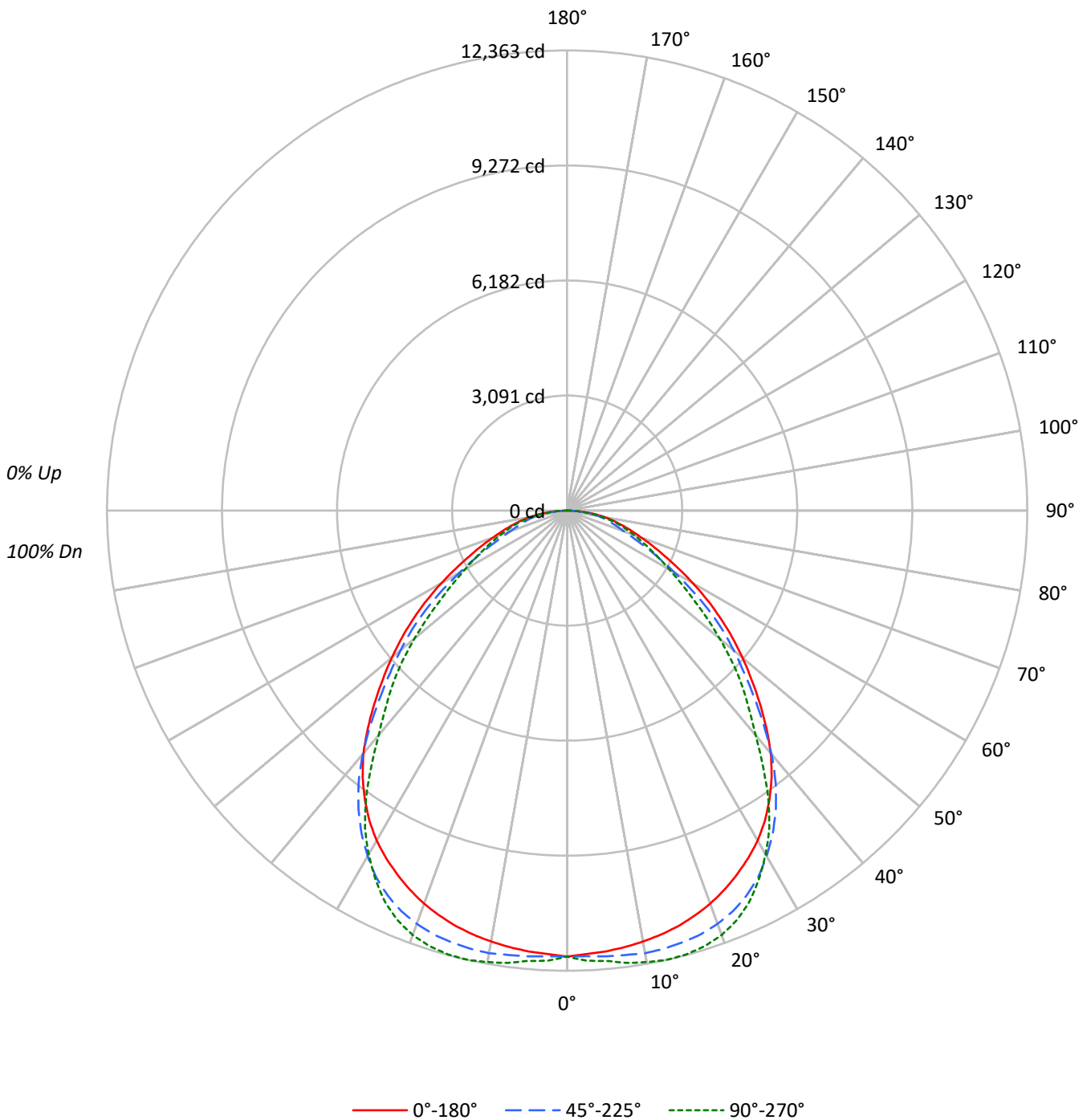
Lumens per Lamp: N/A  
Luminaire Lumens: 29700.0 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	16120	16120	16120
5°	16058	16237	16402
10°	16062	16498	16830
15°	16093	16727	17197
20°	16089	16918	17373
25°	16020	16941	17215
30°	15901	16658	16570
35°	15564	16056	15471
40°	14955	14998	13831
45°	13920	13522	12644
50°	12867	12227	11204
55°	11778	10836	9668
60°	10503	8994	8538
65°	9211	7402	7845
70°	8317	6376	7470
75°	7949	6250	7449
80°	8013	6616	7267
85°	7098	6061	6343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1150.9	3.9
10°-20°	3391.6	11.4
20°-30°	5202.2	17.5
30°-40°	5983.3	20.1
40°-50°	5457.2	18.4
50°-60°	4090.2	13.8
60°-70°	2516.0	8.5
70°-80°	1441.8	4.9
80°-90°	466.8	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°	9744.7	32.8
0°-40°	15728.0	53.0
0°-60°	25275.4	85.1
0°-90°	29700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11981	11981	11981	11981	11981	
5°	11889	12010	12022	12121	12144	###
15°	11553	11810	12008	12265	12346	3261
25°	10791	11101	11411	11587	11596	4972
35°	9476	9660	9775	9614	9419	5909
45°	7316	7474	7106	6740	6645	5646
55°	5021	4835	4619	4212	4121	4486
65°	2893	2588	2325	2397	2464	2909
75°	1529	1370	1202	1376	1433	1635
85°	460	434	393	414	411	513
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11980.7	11980.7	11980.7	11980.7	11980.7
2.5°	11924.2	12009.8	11982.3	12052.5	12104.5
5°	11889.1	12009.8	12022.0	12121.3	12144.2
7.5°	11829.5	11986.8	12041.8	12217.5	12257.2
10°	11756.2	11945.6	12075.4	12264.9	12318.3
12.5°	11667.6	11887.6	12052.5	12286.3	12362.6
15°	11553.0	11809.6	12008.2	12264.9	12345.8
17.5°	11407.9	11705.8	11938.0	12190.0	12274.0
20°	11236.8	11551.5	11815.8	12073.9	12133.5
22.5°	11030.6	11346.8	11647.7	11879.9	11912.0
25°	10790.8	11100.9	11411.0	11586.6	11595.8
27.5°	10529.5	10818.3	11108.5	11203.2	11162.0
30°	10234.7	10492.9	10722.0	10741.9	10665.5
32.5°	9884.9	10117.1	10280.6	10237.8	10109.5
35°	9475.5	9660.4	9774.9	9614.5	9419.0
37.5°	9026.4	9165.4	9203.6	8855.3	8632.3
40°	8514.7	8633.8	8539.1	8054.9	7874.6
42.5°	7925.0	8062.5	7819.6	7341.5	7231.5
45°	7315.5	7474.4	7106.3	6739.6	6644.9
47.5°	6718.3	6863.4	6446.3	6151.5	6011.0
50°	6146.9	6209.6	5841.4	5508.4	5352.6
52.5°	5584.8	5522.2	5261.0	4847.0	4709.5
55°	5021.1	4834.8	4619.4	4211.5	4121.4
57.5°	4455.9	4196.2	3961.0	3647.8	3612.7
60°	3902.9	3583.7	3342.3	3156.0	3172.8
62.5°	3375.9	3050.6	2792.4	2732.8	2797.0
65°	2893.2	2587.7	2325.0	2396.8	2464.0
67.5°	2491.5	2198.2	1930.8	2114.2	2167.6
70°	2114.2	1877.4	1620.8	1857.5	1898.8
72.5°	1813.2	1611.6	1388.6	1619.2	1654.4
75°	1529.1	1370.2	1202.2	1376.3	1432.9
77.5°	1281.6	1150.3	1035.7	1138.0	1199.1
80°	1034.2	922.7	853.9	899.7	937.9
82.5°	757.7	685.9	635.5	655.3	661.4
85°	459.8	433.8	392.6	414.0	410.9
87.5°	151.2	172.6	181.8	163.5	154.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)