

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-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 (P23760)
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-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

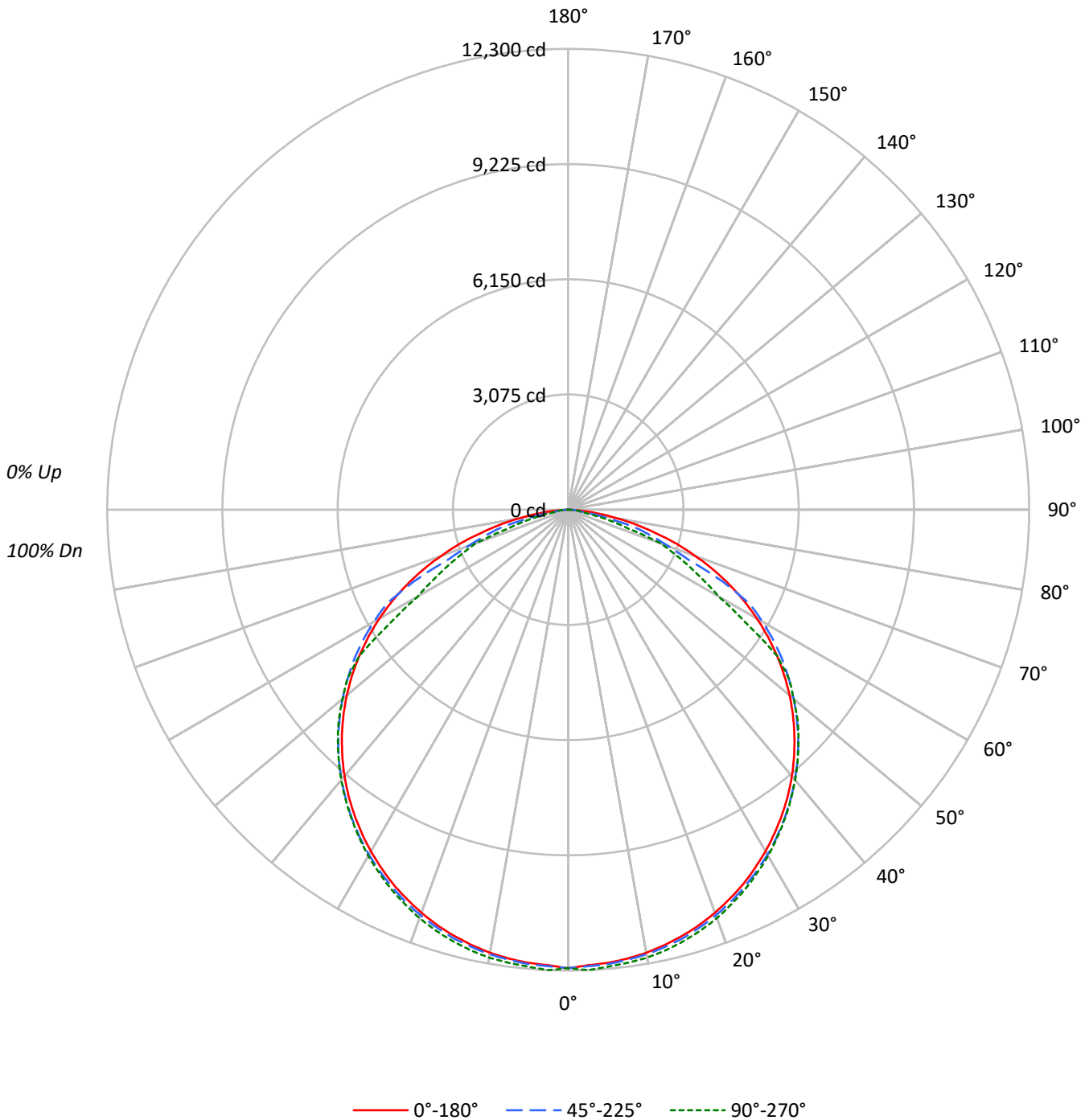
Lumens per Lamp: N/A
Luminaire Lumens: 35322.0 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16462	16462	16462
5°	16394	16440	16533
10°	16404	16462	16586
15°	16400	16487	16602
20°	16391	16496	16611
25°	16385	16503	16594
30°	16356	16516	16577
35°	16336	16524	16545
40°	16306	16523	16548
45°	16245	16515	16535
50°	16148	16446	16442
55°	15959	16358	15952
60°	15663	16117	12482
65°	15140	14505	11245
70°	14184	11160	10364
75°	12559	9730	6459
80°	10343	5728	2887
85°	6816	3511	3782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.0	3.3
10°-20°	3349.8	9.5
20°-30°	5135.6	14.5
30°-40°	6298.3	17.8
40°-50°	6687.7	18.9
50°-60°	6108.4	17.3
60°-70°	4253.9	12.0
70°-80°	1984.0	5.6
80°-90°	343.2	1.0
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°	9646.4	27.3
0°-40°	15944.7	45.1
0°-60°	28740.9	81.4
0°-90°	35322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12235	12235	12235	12235	12235	
5°	12138	12224	12172	12231	12241	###
15°	11773	11855	11836	11908	11918	3324
25°	11037	11134	11116	11198	11178	5086
35°	9945	10060	10060	10127	10073	6224
45°	8537	8666	8680	8735	8690	6584
55°	6803	6940	6974	6985	6800	6076
65°	4756	4902	4556	3623	3532	4692
75°	2416	2568	1872	1297	1242	2583
85°	442	290	227	244	245	570
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12235.2	12235.2	12235.2	12235.2	12235.2
2.5°	12170.7	12248.4	12197.1	12252.8	12299.8
5°	12138.4	12223.5	12172.1	12230.8	12241.1
7.5°	12085.6	12166.3	12119.3	12183.9	12200.0
10°	12006.4	12085.6	12048.9	12125.2	12139.9
12.5°	11899.3	11980.0	11952.1	12035.7	12046.0
15°	11773.2	11855.3	11836.2	11908.1	11918.4
17.5°	11625.0	11710.1	11688.1	11764.4	11771.7
20°	11447.5	11539.9	11520.9	11610.3	11601.5
22.5°	11248.0	11346.3	11331.6	11421.1	11394.7
25°	11036.8	11133.6	11116.0	11198.1	11177.6
27.5°	10788.9	10896.0	10879.8	10959.0	10926.8
30°	10527.8	10636.3	10630.5	10702.3	10670.1
32.5°	10246.1	10362.0	10356.2	10426.6	10376.7
35°	9945.4	10059.8	10059.8	10127.3	10073.0
37.5°	9627.1	9743.0	9744.5	9809.0	9757.7
40°	9283.9	9399.7	9407.1	9468.7	9421.7
42.5°	8923.0	9049.2	9055.0	9110.8	9066.8
45°	8537.2	8666.3	8679.5	8735.3	8689.8
47.5°	8133.8	8264.4	8276.1	8336.3	8304.0
50°	7714.3	7840.5	7856.6	7906.5	7855.1
52.5°	7271.3	7400.4	7422.4	7453.2	7429.7
55°	6803.4	6939.8	6973.5	6985.3	6800.4
57.5°	6319.3	6458.7	6490.9	6221.0	5626.9
60°	5820.6	5958.5	5989.3	5060.7	4638.3
62.5°	5301.3	5436.2	5470.0	4193.8	4058.8
65°	4755.6	4902.3	4556.1	3623.2	3532.2
67.5°	4195.3	4346.4	3445.7	3105.4	3051.1
70°	3605.6	3758.1	2836.9	2647.7	2634.5
72.5°	3039.4	3152.3	2327.9	2006.7	1689.8
75°	2415.9	2568.5	1871.7	1296.7	1242.4
77.5°	1873.2	1619.4	1129.5	950.5	749.6
80°	1334.9	1082.6	739.3	394.6	372.6
82.5°	846.4	707.0	290.4	297.8	311.0
85°	441.5	290.4	227.4	243.5	245.0
87.5°	142.3	124.7	136.4	135.0	133.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)