

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-L850-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-L850-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: 32447.0 lumens
Efficiency: N/A
Efficacy: 153.6 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

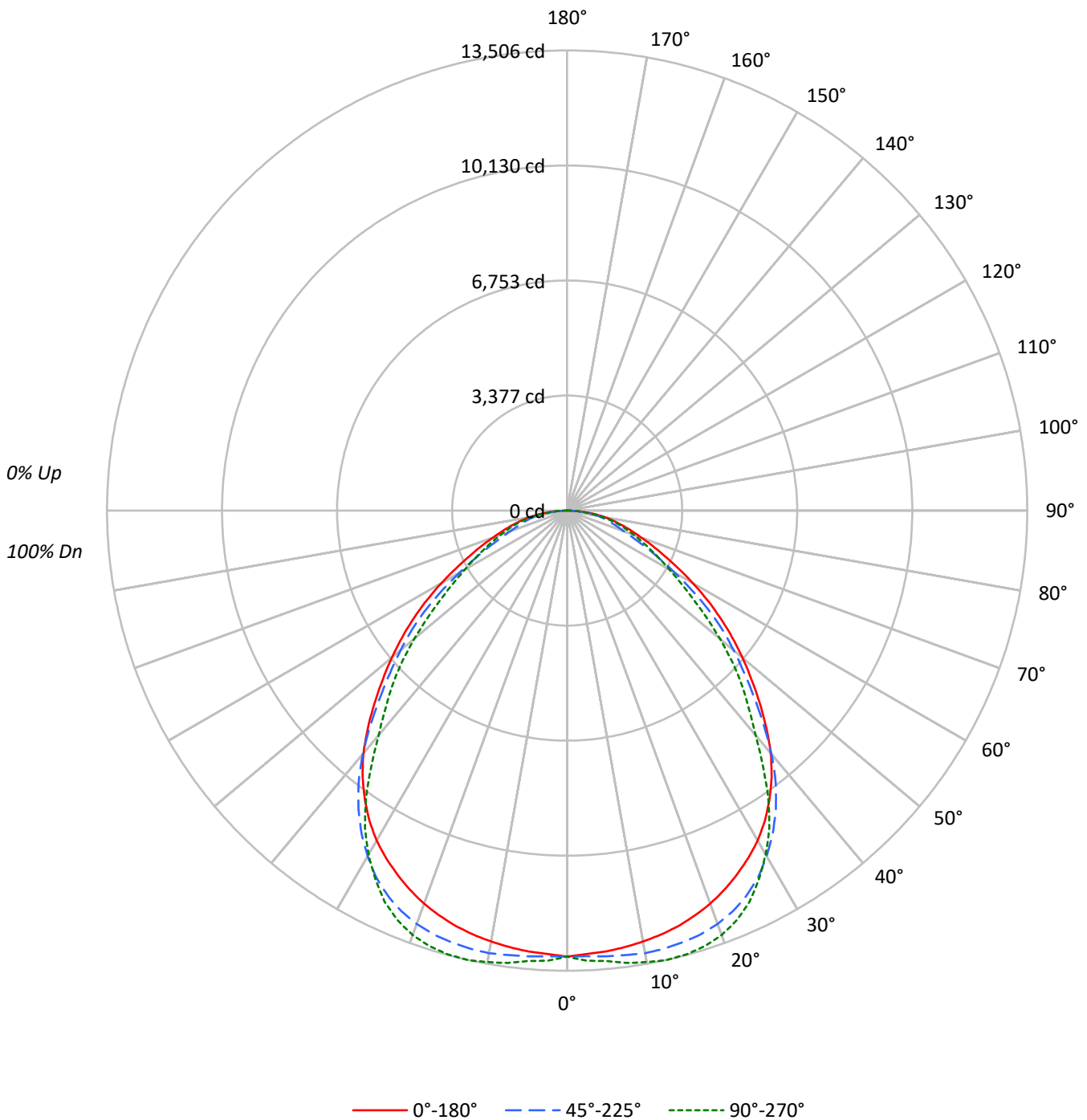
Input Watts (W): 211.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36HE-W-AWG-UNV-L850-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36HE-W-AWG-UNV-L850-ED3-U

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	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°	17611	17611	17611
5°	17543	17739	17919
10°	17547	18024	18387
15°	17581	18274	18788
20°	17577	18483	18980
25°	17501	18507	18807
30°	17372	18199	18103
35°	17003	17541	16902
40°	16338	16385	15110
45°	15208	14772	13813
50°	14057	13358	12240
55°	12868	11838	10562
60°	11474	9826	9327
65°	10063	8087	8570
70°	9086	6966	8161
75°	8684	6828	8138
80°	8754	7228	7940
85°	7754	6621	6930



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36HE-W-AWG-UNV-L850-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1257.3	3.9
10°-20°	3705.3	11.4
20°-30°	5683.4	17.5
30°-40°	6536.7	20.1
40°-50°	5962.0	18.4
50°-60°	4468.5	13.8
60°-70°	2748.7	8.5
70°-80°	1575.2	4.9
80°-90°	510.0	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°	10646.0	32.8
0°-40°	17182.7	53.0
0°-60°	27613.2	85.1
0°-90°	32447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13089	13089	13089	13089	13089	
5°	12989	13121	13134	13242	13267	###
15°	12622	12902	13119	13399	13488	3563
25°	11789	12128	12466	12658	12668	5432
35°	10352	10554	10679	10504	10290	6456
45°	7992	8166	7764	7363	7260	6168
55°	5486	5282	5047	4601	4503	4901
65°	3161	2827	2540	2618	2692	3178
75°	1670	1497	1313	1504	1565	1786
85°	502	474	429	452	449	560
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36HE-W-AWG-UNV-L850-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13088.9	13088.9	13088.9	13088.9	13088.9
2.5°	13027.1	13120.6	13090.5	13167.3	13224.0
5°	12988.7	13120.6	13133.9	13242.4	13267.4
7.5°	12923.6	13095.5	13155.6	13347.5	13390.9
10°	12843.5	13050.5	13192.3	13399.3	13457.7
12.5°	12746.7	12987.1	13167.3	13422.6	13506.1
15°	12621.6	12901.9	13118.9	13399.3	13487.7
17.5°	12463.0	12788.5	13042.1	13317.5	13409.3
20°	12276.1	12619.9	12908.6	13190.7	13255.7
22.5°	12050.8	12396.3	12725.0	12978.7	13013.8
25°	11788.8	12127.6	12466.4	12658.3	12668.3
27.5°	11503.4	11818.9	12135.9	12239.4	12194.3
30°	11181.3	11463.4	11713.7	11735.4	11652.0
32.5°	10799.2	11052.8	11231.4	11184.7	11044.5
35°	10351.9	10553.9	10679.0	10503.8	10290.2
37.5°	9861.3	10013.1	10054.9	9674.4	9430.7
40°	9302.2	9432.4	9328.9	8799.9	8603.0
42.5°	8658.0	8808.2	8542.9	8020.5	7900.4
45°	7992.2	8165.7	7763.5	7363.0	7259.5
47.5°	7339.6	7498.2	7042.6	6720.5	6567.0
50°	6715.5	6783.9	6381.7	6017.9	5847.7
52.5°	6101.3	6032.9	5747.5	5295.3	5145.1
55°	5485.5	5281.9	5046.6	4601.0	4502.6
57.5°	4868.1	4584.4	4327.3	3985.2	3946.8
60°	4263.9	3915.1	3651.5	3447.9	3466.2
62.5°	3688.2	3332.7	3050.7	2985.6	3055.7
65°	3160.8	2827.0	2540.0	2618.4	2691.9
67.5°	2721.9	2401.5	2109.4	2309.7	2368.1
70°	2309.7	2051.0	1770.7	2029.3	2074.4
72.5°	1980.9	1760.6	1517.0	1769.0	1807.4
75°	1670.5	1497.0	1313.4	1503.6	1565.4
77.5°	1400.2	1256.7	1131.5	1243.3	1310.1
80°	1129.8	1008.0	932.9	983.0	1024.7
82.5°	827.8	749.3	694.2	715.9	722.6
85°	502.3	474.0	428.9	452.3	448.9
87.5°	165.2	188.6	198.6	178.6	168.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)