

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

Luminaire Equipment: Sample No. Condition Description

Summary

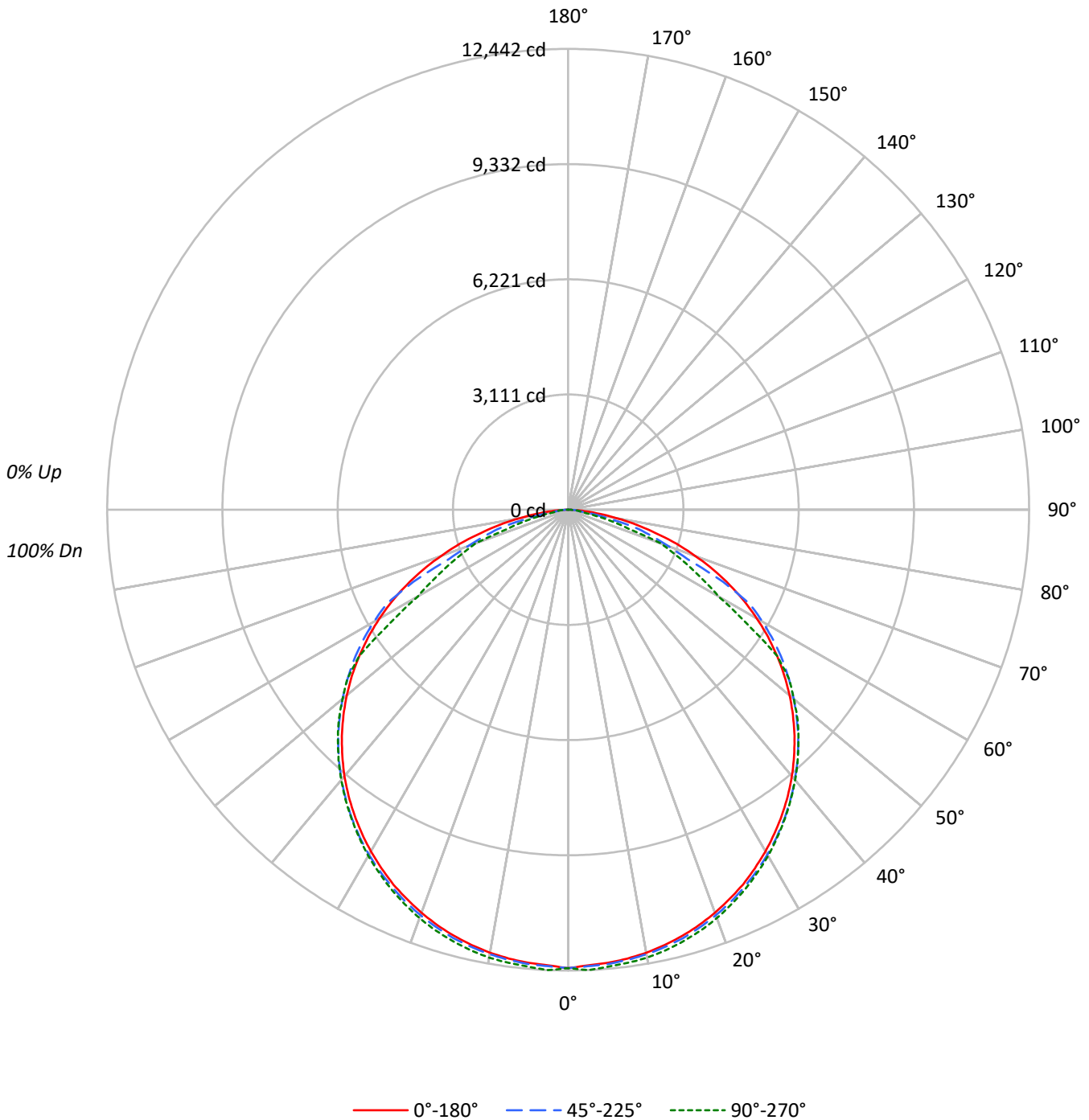
Lumens per Lamp: N/A
Luminaire Lumens: 35731.0 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	16653	16653	16653
5°	16584	16630	16725
10°	16594	16652	16778
15°	16589	16678	16794
20°	16581	16687	16804
25°	16575	16694	16786
30°	16546	16707	16769
35°	16525	16715	16737
40°	16495	16714	16740
45°	16433	16707	16726
50°	16335	16636	16633
55°	16144	16548	16137
60°	15844	16304	12626
65°	15316	14673	11376
70°	14348	11290	10484
75°	12705	9843	6534
80°	10463	5795	2920
85°	6895	3551	3825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1174.5	3.3
10°-20°	3388.6	9.5
20°-30°	5195.1	14.5
30°-40°	6371.2	17.8
40°-50°	6765.2	18.9
50°-60°	6179.2	17.3
60°-70°	4303.2	12.0
70°-80°	2007.0	5.6
80°-90°	347.2	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°	9758.1	27.3
0°-40°	16129.3	45.1
0°-60°	29073.6	81.4
0°-90°	35731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12377	12377	12377	12377	12377	
5°	12279	12365	12313	12372	12383	###
15°	11910	11993	11973	12046	12056	3363
25°	11165	11262	11245	11328	11307	5145
35°	10061	10176	10176	10245	10190	6296
45°	8636	8767	8780	8836	8790	6660
55°	6882	7020	7054	7066	6879	6146
65°	4811	4959	4609	3665	3573	4747
75°	2444	2598	1893	1312	1257	2613
85°	447	294	230	246	248	577
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12376.9	12376.9	12376.9	12376.9	12376.9
2.5°	12311.6	12390.2	12338.3	12394.7	12442.2
5°	12279.0	12365.0	12313.1	12372.4	12382.8
7.5°	12225.5	12307.2	12259.7	12325.0	12341.3
10°	12145.4	12225.5	12188.4	12265.6	12280.4
12.5°	12037.1	12118.7	12090.5	12175.1	12185.5
15°	11909.5	11992.6	11973.3	12046.0	12056.4
17.5°	11759.6	11845.7	11823.4	11900.6	11908.0
20°	11580.1	11673.5	11654.3	11744.8	11735.9
22.5°	11378.3	11477.7	11462.8	11553.3	11526.6
25°	11164.6	11262.5	11244.7	11327.8	11307.0
27.5°	10913.8	11022.1	11005.8	11085.9	11053.3
30°	10649.7	10759.5	10753.5	10826.3	10793.6
32.5°	10364.8	10482.0	10476.1	10547.3	10496.8
35°	10060.6	10176.3	10176.3	10244.6	10189.7
37.5°	9738.6	9855.8	9857.3	9922.6	9870.7
40°	9391.4	9508.6	9516.0	9578.3	9530.8
42.5°	9026.3	9153.9	9159.9	9216.3	9171.8
45°	8636.1	8766.7	8780.0	8836.4	8790.4
47.5°	8228.0	8360.1	8371.9	8432.8	8400.1
50°	7803.6	7931.2	7947.6	7998.0	7946.1
52.5°	7355.5	7486.1	7508.3	7539.5	7515.8
55°	6882.2	7020.2	7054.3	7066.2	6879.2
57.5°	6392.5	6533.4	6566.1	6293.1	5692.1
60°	5888.0	6027.4	6058.6	5119.3	4692.0
62.5°	5362.7	5499.2	5533.3	4242.4	4105.8
65°	4810.7	4959.1	4608.9	3665.1	3573.1
67.5°	4243.8	4396.7	3485.6	3141.3	3086.4
70°	3647.3	3801.7	2869.8	2678.4	2665.0
72.5°	3074.6	3188.8	2354.9	2029.9	1709.4
75°	2443.9	2598.2	1893.4	1311.7	1256.8
77.5°	1894.9	1638.2	1142.6	961.5	758.3
80°	1350.3	1095.1	747.9	399.2	376.9
82.5°	856.2	715.2	293.8	301.2	314.6
85°	446.6	293.8	230.0	246.3	247.8
87.5°	143.9	126.1	138.0	136.5	135.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)