

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-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

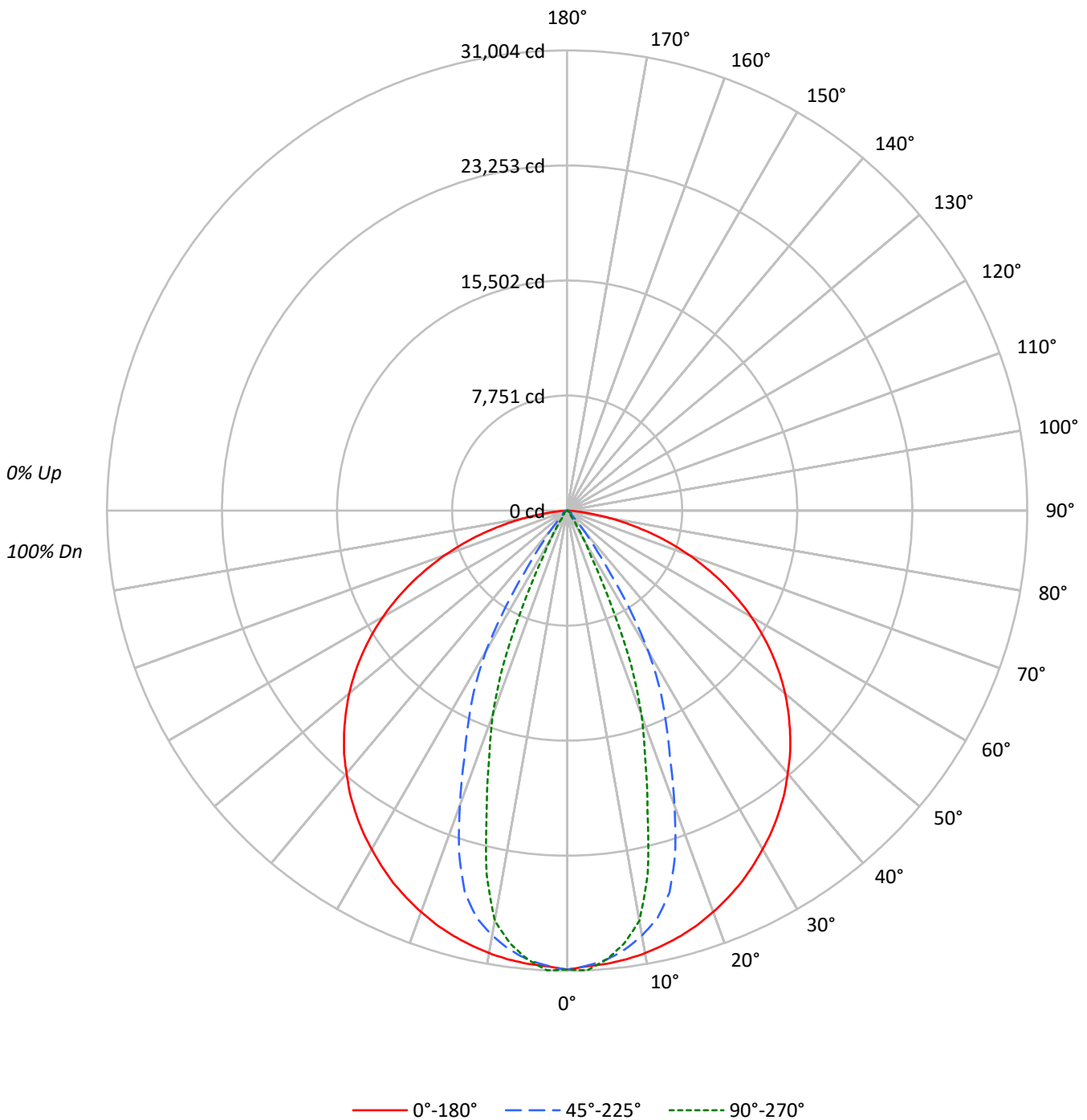
Lumens per Lamp: N/A
Luminaire Lumens: 32874.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66				66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55				55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44				44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41615	41615	41615
5°	41393	41027	41009
10°	41367	39712	38319
15°	41308	37101	29163
20°	41212	30244	20992
25°	41107	23386	10341
30°	40925	16996	3354
35°	40829	7540	863
40°	40615	3062	582
45°	40433	859	619
50°	40118	610	687
55°	39540	725	293
60°	38564	808	178
65°	36978	515	211
70°	34353	457	260
75°	30053	344	360
80°	22470	422	513
85°	11131	545	681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2870.3	8.7
10°-20°	7177.2	21.8
20°-30°	7774.0	23.6
30°-40°	5756.9	17.5
40°-50°	4146.5	12.6
50°-60°	2567.5	7.8
60°-70°	1579.0	4.8
70°-80°	832.4	2.5
80°-90°	170.4	0.5
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°	17821.4	54.2
0°-40°	23578.3	71.7
0°-60°	30292.3	92.1
0°-90°	32874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30929	30929	30929	30929	30929	
5°	30647	30760	30376	30398	30363	###
15°	29655	28967	26634	22650	20936	8371
25°	27689	25363	15752	9910	6965	12758
35°	24857	17524	4591	1080	525	15551
45°	21249	9873	452	327	325	16388
55°	16856	2033	309	280	125	15047
65°	11615	215	162	103	66	11460
75°	5781	50	66	87	69	6106
85°	721	19	35	53	44	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30929.4	30929.4	30929.4	30929.4	30929.4
2.5°	30730.7	30926.4	30695.4	30867.6	31004.4
5°	30646.9	30760.1	30376.1	30398.2	30362.9
7.5°	30499.7	30473.2	29827.3	29544.8	29421.2
10°	30277.5	30102.5	29066.6	28476.6	28047.0
12.5°	29990.6	29599.2	28117.6	26241.6	25076.3
15°	29655.2	28966.6	26634.5	22650.0	20935.9
17.5°	29255.0	28279.4	24209.7	18983.4	17453.2
20°	28782.6	27512.9	21122.8	16151.1	14660.6
22.5°	28255.9	26580.0	18124.2	13423.2	11297.1
25°	27689.4	25363.2	15752.3	9909.6	6965.4
27.5°	27034.7	23799.2	13527.6	5836.9	3554.8
30°	26341.7	21915.8	10939.5	3139.9	2158.5
32.5°	25642.8	19780.9	7740.8	1961.3	1224.2
35°	24857.1	17523.8	4590.6	1080.0	525.3
37.5°	24037.5	15455.1	2713.2	491.4	336.9
40°	23123.8	13564.4	1743.6	326.6	331.1
42.5°	22241.0	11801.7	981.4	322.2	328.1
45°	21249.3	9872.8	451.7	326.6	325.2
47.5°	20223.8	7873.2	292.8	329.6	329.6
50°	19165.9	5629.4	291.3	336.9	328.1
52.5°	18049.1	3512.1	303.1	335.5	269.3
55°	16855.8	2033.4	309.0	279.6	125.1
57.5°	15619.9	1199.2	311.9	160.4	70.6
60°	14331.0	663.6	300.2	119.2	66.2
62.5°	13002.4	316.3	236.9	111.8	64.7
65°	11614.9	214.8	161.8	103.0	66.2
67.5°	10174.4	166.3	128.0	97.1	67.7
70°	8732.5	123.6	116.2	97.1	66.2
72.5°	7267.0	83.9	97.1	98.6	66.2
75°	5781.0	50.0	66.2	86.8	69.2
77.5°	4308.1	30.9	51.5	89.8	83.9
80°	2900.0	26.5	54.4	83.9	66.2
82.5°	1702.4	23.5	53.0	64.7	53.0
85°	721.0	19.1	35.3	53.0	44.1
87.5°	135.4	16.2	28.0	42.7	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)