

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-LD5-18HE-W-A-UNV-L740-ED2-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-A-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

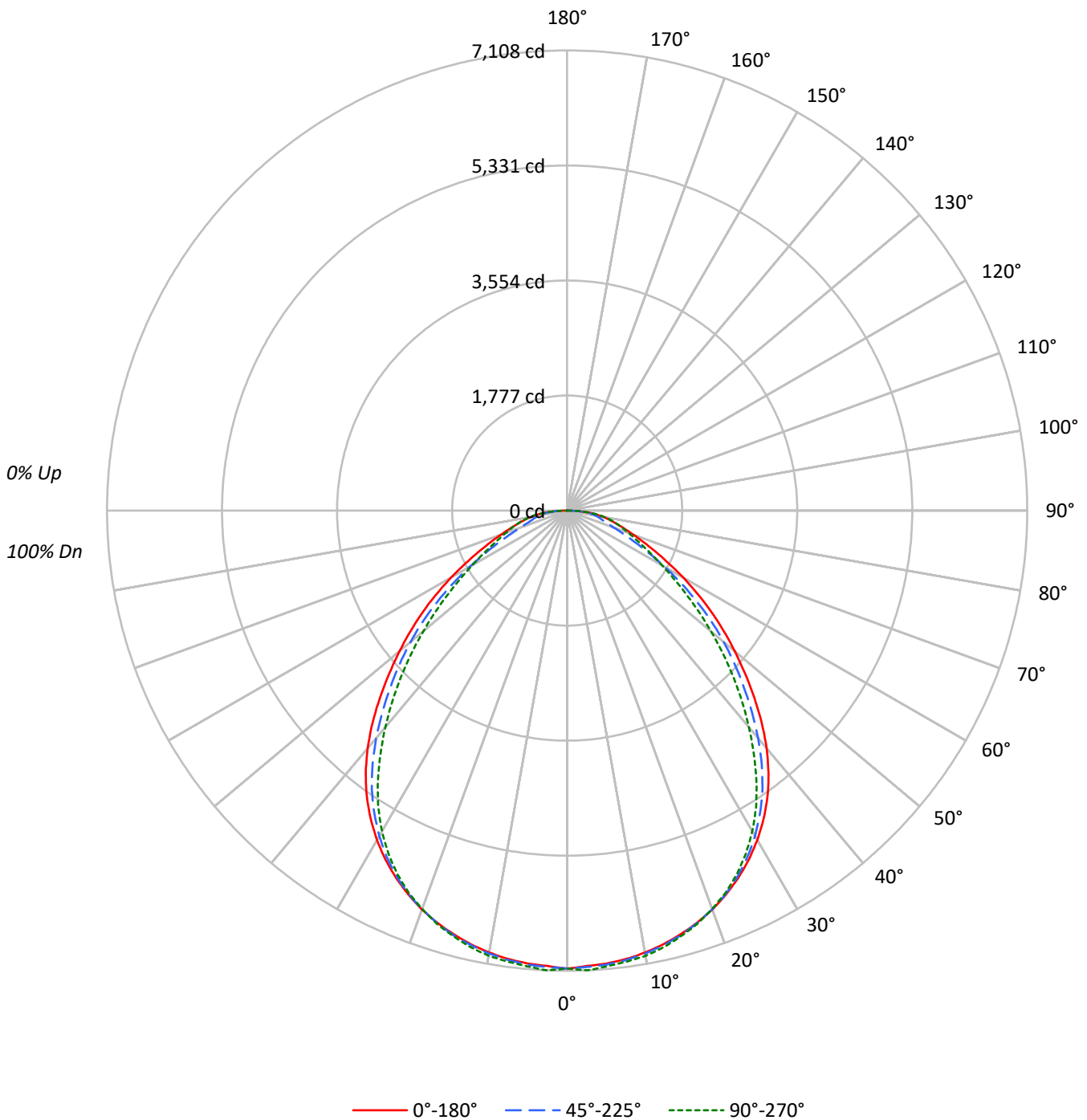
Lumens per Lamp: N/A
Luminaire Lumens: 16250.0 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9518	9518	9518
5°	9484	9506	9544
10°	9471	9493	9540
15°	9439	9458	9480
20°	9390	9383	9376
25°	9288	9256	9204
30°	9127	9017	8886
35°	8862	8639	8373
40°	8421	8060	7673
45°	7780	7346	6901
50°	7072	6615	6070
55°	6359	5727	5248
60°	5564	4680	4553
65°	4798	3680	4110
70°	4278	3004	3961
75°	4098	2932	4139
80°	4432	3468	4611
85°	4976	4174	5025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.4	4.1
10°-20°	1918.7	11.8
20°-30°	2870.2	17.7
30°-40°	3274.7	20.2
40°-50°	2980.9	18.3
50°-60°	2188.8	13.5
60°-70°	1292.4	8.0
70°-80°	740.7	4.6
80°-90°	313.2	1.9
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°	5459.4	33.6
0°-40°	8734.1	53.7
0°-60°	13903.8	85.6
0°-90°	16250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7074	7074	7074	7074	7074	
5°	7022	7066	7038	7066	7067	668
15°	6776	6814	6790	6814	6806	1912
25°	6256	6278	6235	6232	6200	2880
35°	5395	5369	5260	5170	5098	3362
45°	4089	4065	3860	3687	3627	3151
55°	2711	2586	2441	2264	2237	2424
65°	1507	1316	1156	1237	1291	1516
75°	788	676	564	736	796	850
85°	322	298	270	319	326	337
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7073.9	7073.9	7073.9	7073.9	7073.9
2.5°	7041.2	7081.9	7056.3	7084.3	7108.2
5°	7022.0	7065.9	7038.0	7065.9	7066.7
7.5°	6986.9	7027.6	7000.5	7030.8	7027.6
10°	6931.9	6972.6	6947.9	6980.6	6983.0
12.5°	6861.7	6900.8	6875.3	6912.7	6906.4
15°	6776.3	6813.8	6789.9	6813.8	6805.8
17.5°	6675.8	6710.1	6679.0	6705.3	6691.8
20°	6557.7	6586.5	6552.9	6577.7	6548.2
22.5°	6416.5	6442.1	6407.0	6420.5	6390.2
25°	6256.2	6278.5	6234.6	6232.2	6199.5
27.5°	6077.5	6089.4	6033.6	6014.4	5977.0
30°	5874.8	5878.0	5803.8	5767.9	5719.3
32.5°	5647.5	5639.5	5544.6	5491.1	5431.3
35°	5395.4	5369.0	5259.8	5169.6	5097.8
37.5°	5110.6	5069.1	4938.2	4805.0	4736.4
40°	4794.6	4746.0	4588.8	4423.7	4368.6
42.5°	4450.8	4409.3	4224.2	4051.9	3997.7
45°	4088.6	4064.7	3860.4	3687.3	3626.7
47.5°	3726.4	3708.9	3509.4	3333.1	3259.7
50°	3378.6	3340.3	3160.0	2966.9	2899.9
52.5°	3041.1	2962.9	2804.2	2606.3	2556.9
55°	2710.9	2585.6	2441.2	2264.1	2237.0
57.5°	2383.8	2221.8	2081.4	1949.0	1948.2
60°	2067.8	1882.8	1739.2	1669.7	1692.1
62.5°	1771.9	1582.0	1426.4	1431.2	1471.9
65°	1507.0	1315.5	1156.0	1236.6	1290.8
67.5°	1279.6	1096.9	935.0	1085.0	1136.8
70°	1087.4	922.2	763.5	951.0	1006.8
72.5°	925.4	786.6	643.8	839.3	895.9
75°	788.2	675.7	564.0	735.6	796.2
77.5°	676.5	576.8	505.8	636.6	699.7
80°	572.0	484.3	447.6	540.9	595.1
82.5°	453.1	392.5	371.0	439.6	467.5
85°	322.3	297.6	270.4	319.1	325.5
87.5°	177.1	183.5	151.6	183.5	184.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)