

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-WG-UNV-L840-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

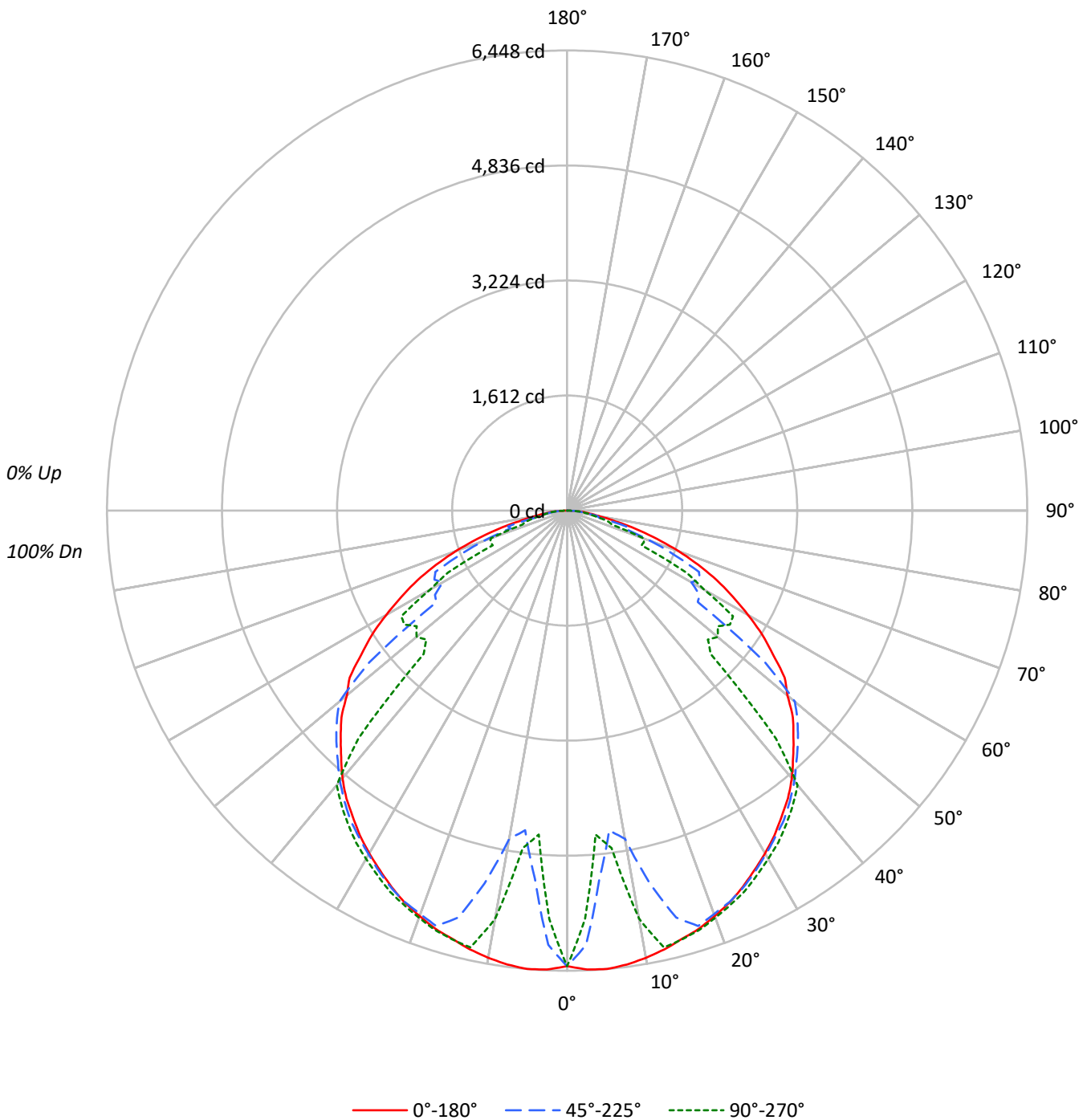
Lumens per Lamp: N/A
Luminaire Lumens: 16913.0 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8590	8590	8590
5°	8709	6997	6153
10°	8694	6381	7936
15°	8656	8224	8663
20°	8656	8616	8693
25°	8640	8660	8739
30°	8615	8644	8755
35°	8602	8697	8798
40°	8603	8697	8821
45°	8535	8702	5408
50°	8439	8720	5764
55°	8261	5243	6533
60°	7880	5405	5982
65°	7383	6489	3660
70°	6520	4916	4487
75°	5195	4469	3111
80°	3578	3230	2673
85°	3429	2981	2828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.5	3.0
10°-20°	1599.3	9.5
20°-30°	2631.3	15.6
30°-40°	3308.5	19.6
40°-50°	3244.8	19.2
50°-60°	2688.5	15.9
60°-70°	1896.2	11.2
70°-80°	827.3	4.9
80°-90°	206.7	1.2
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°	4741.1	28.0
0°-40°	8049.6	47.6
0°-60°	13982.8	82.7
0°-90°	16913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6384	6384	6384	6384	6384	
5°	6448	6002	5180	4697	4556	612
15°	6214	4315	5904	6238	6219	1757
25°	5820	5325	5833	5872	5886	2683
35°	5237	5234	5295	5330	5357	3281
45°	4486	4499	4573	4050	2842	3462
55°	3522	3637	2235	2541	2785	3151
65°	2319	2456	2038	1568	1150	2280
75°	999	979	860	562	598	1072
85°	222	198	193	185	183	230
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6384.1	6384.1	6384.1	6384.1	6384.1
2.5°	6436.8	6303.2	6091.0	5823.8	5729.1
5°	6448.2	6001.7	5180.3	4697.0	4555.8
7.5°	6415.4	5454.3	4516.1	4617.7	4767.3
10°	6363.5	4973.4	4670.3	5494.8	5808.5
12.5°	6297.1	4545.9	5350.5	6207.0	6269.6
15°	6213.9	4315.4	5903.9	6238.3	6219.2
17.5°	6143.6	4450.5	6102.4	6175.7	6162.0
20°	6045.2	4719.9	6017.7	6076.5	6071.1
22.5°	5945.9	5039.0	5937.5	5979.5	5979.5
25°	5820.0	5325.3	5833.0	5871.9	5886.4
27.5°	5681.8	5490.2	5702.4	5734.5	5760.4
30°	5545.2	5513.9	5563.5	5604.7	5635.2
32.5°	5400.9	5388.7	5427.6	5471.1	5510.0
35°	5236.8	5233.7	5294.8	5329.9	5356.6
37.5°	5082.6	5071.9	5128.4	5177.2	5197.8
40°	4897.8	4897.8	4951.3	5000.9	5022.2
42.5°	4687.1	4716.9	4758.1	4809.3	4331.4
45°	4485.6	4499.3	4573.4	4050.5	2842.0
47.5°	4291.7	4309.3	4379.5	2603.9	2674.9
50°	4031.4	4110.8	4165.7	2596.2	2753.5
52.5°	3841.3	3875.7	3497.0	2570.3	2658.8
55°	3521.5	3636.7	2235.2	2541.3	2784.8
57.5°	3248.2	3332.1	2197.8	2603.9	2755.0
60°	2928.3	3056.6	2008.4	2512.3	2222.9
62.5°	2621.4	2743.6	2097.0	1977.1	1882.5
65°	2319.1	2455.8	2038.2	1568.0	1149.6
67.5°	1987.8	1860.3	1626.0	1104.6	1162.6
70°	1657.3	1299.3	1249.6	1235.1	1140.5
72.5°	1317.6	948.1	829.8	926.7	663.4
75°	999.3	979.4	859.6	561.8	598.5
77.5°	693.1	706.9	460.3	548.1	455.0
80°	461.8	400.0	416.8	349.6	345.0
82.5°	319.9	326.7	274.1	265.7	269.5
85°	222.1	197.7	193.1	184.7	183.2
87.5°	74.0	86.3	80.2	72.5	77.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)