

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-AWG-UNV-L850-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 (P23764)
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-AWG-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

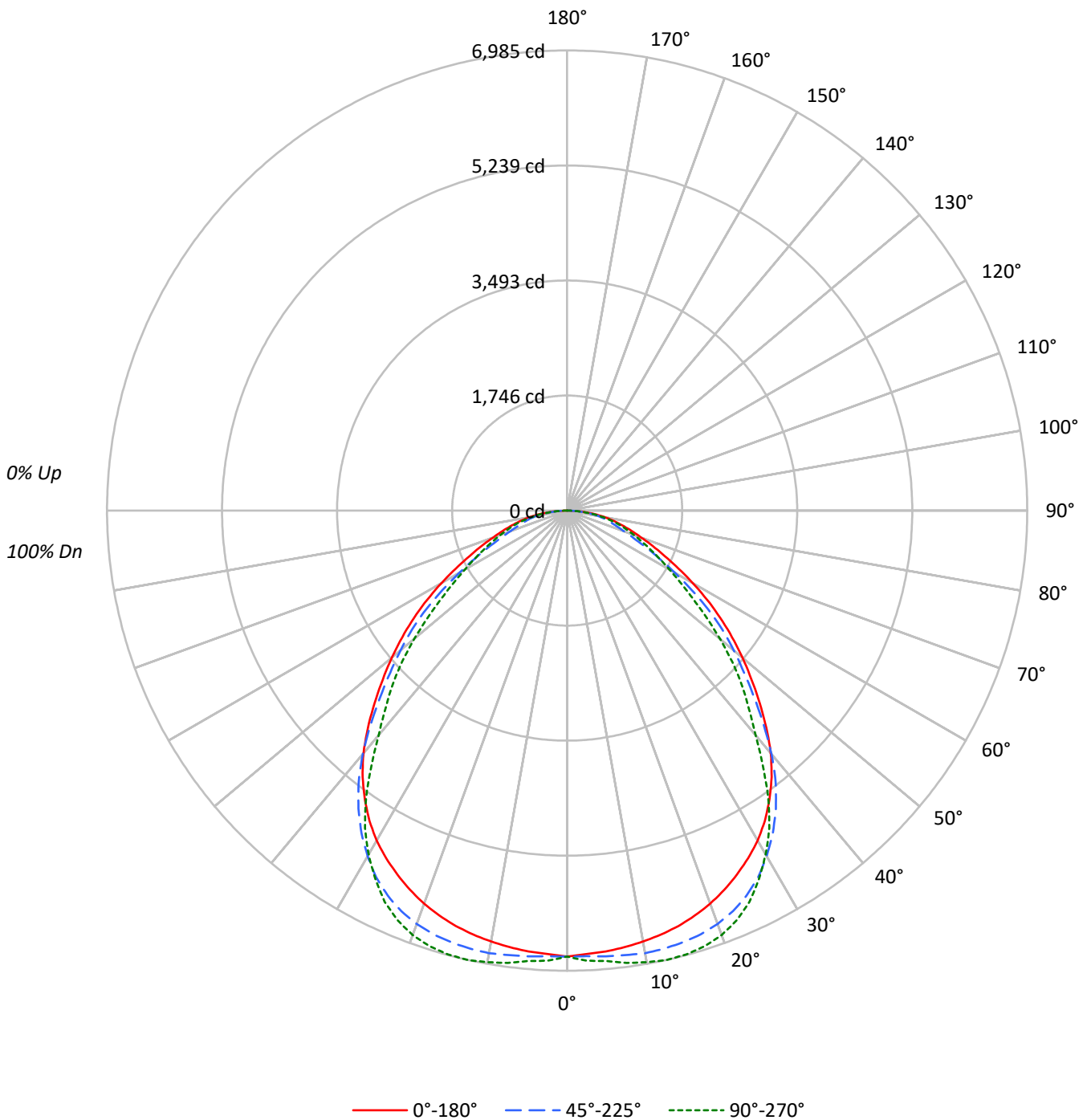
Lumens per Lamp: N/A
Luminaire Lumens: 16781.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9108	9108	9108
5°	9073	9174	9268
10°	9075	9322	9509
15°	9093	9451	9717
20°	9091	9559	9816
25°	9052	9572	9727
30°	8984	9412	9363
35°	8794	9072	8741
40°	8450	8474	7815
45°	7865	7640	7144
50°	7270	6909	6330
55°	6655	6123	5463
60°	5934	5082	4824
65°	5204	4182	4432
70°	4699	3603	4220
75°	4492	3531	4209
80°	4527	3739	4106
85°	4011	3424	3585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.3	3.9
10°-20°	1916.3	11.4
20°-30°	2939.3	17.5
30°-40°	3380.7	20.1
40°-50°	3083.4	18.4
50°-60°	2311.0	13.8
60°-70°	1421.6	8.5
70°-80°	814.7	4.9
80°-90°	263.8	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°	5505.9	32.8
0°-40°	8886.6	53.0
0°-60°	14281.0	85.1
0°-90°	16781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6769	6769	6769	6769	6769	
5°	6718	6786	6793	6849	6862	639
15°	6528	6673	6785	6930	6976	1843
25°	6097	6272	6447	6547	6552	2809
35°	5354	5458	5523	5432	5322	3339
45°	4133	4223	4015	3808	3754	3190
55°	2837	2732	2610	2380	2329	2535
65°	1635	1462	1314	1354	1392	1644
75°	864	774	679	778	810	924
85°	260	245	222	234	232	290
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6769.3	6769.3	6769.3	6769.3	6769.3
2.5°	6737.4	6785.7	6770.2	6809.9	6839.2
5°	6717.5	6785.7	6792.6	6848.7	6861.7
7.5°	6683.9	6772.8	6803.8	6903.1	6925.5
10°	6642.4	6749.5	6822.8	6929.9	6960.1
12.5°	6592.4	6716.7	6809.9	6941.9	6985.1
15°	6527.6	6672.7	6784.9	6929.9	6975.6
17.5°	6445.7	6614.0	6745.2	6887.6	6935.0
20°	6349.0	6526.8	6676.1	6822.0	6855.6
22.5°	6232.5	6411.1	6581.2	6712.4	6730.5
25°	6097.0	6272.2	6447.4	6546.6	6551.8
27.5°	5949.4	6112.5	6276.5	6330.0	6306.7
30°	5782.8	5928.7	6058.1	6069.3	6026.2
32.5°	5585.1	5716.3	5808.7	5784.5	5712.0
35°	5353.8	5458.3	5523.0	5432.4	5321.9
37.5°	5100.1	5178.6	5200.2	5003.4	4877.4
40°	4810.9	4878.3	4824.7	4551.1	4449.3
42.5°	4477.8	4555.5	4418.2	4148.1	4085.9
45°	4133.4	4223.2	4015.2	3808.0	3754.5
47.5°	3795.9	3877.9	3642.3	3475.7	3396.3
50°	3473.1	3508.5	3300.5	3112.3	3024.3
52.5°	3155.5	3120.1	2972.5	2738.6	2660.9
55°	2837.0	2731.7	2610.0	2379.6	2328.7
57.5°	2517.7	2370.9	2238.0	2061.1	2041.2
60°	2205.2	2024.8	1888.5	1783.2	1792.7
62.5°	1907.5	1723.6	1577.8	1544.1	1580.3
65°	1634.7	1462.1	1313.6	1354.2	1392.2
67.5°	1407.7	1242.0	1091.0	1194.5	1224.7
70°	1194.5	1060.8	915.8	1049.5	1072.8
72.5°	1024.5	910.6	784.6	914.9	934.7
75°	864.0	774.2	679.3	777.7	809.6
77.5°	724.1	649.9	585.2	643.0	677.5
80°	584.3	521.3	482.5	508.4	529.9
82.5°	428.1	387.5	359.1	370.3	373.7
85°	259.8	245.1	221.8	233.9	232.2
87.5°	85.4	97.5	102.7	92.4	87.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)