

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

Luminaire Equipment: Sample No. Condition Description

Summary

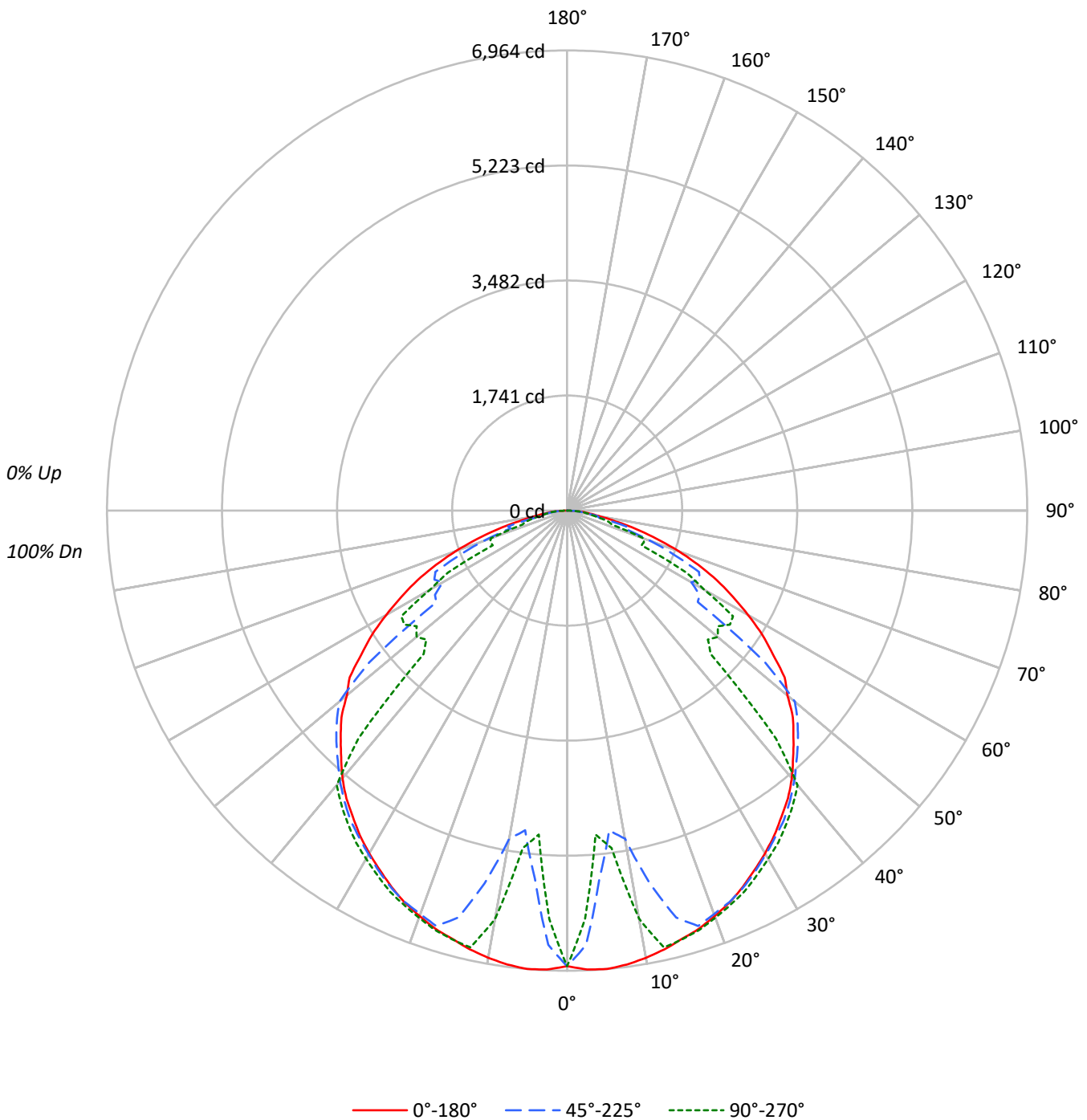
Lumens per Lamp: N/A
Luminaire Lumens: 18266.0 lumens
Efficiency: N/A
Efficacy: 163.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9277	9277	9277
5°	9406	7556	6645
10°	9390	6891	8571
15°	9348	8882	9356
20°	9348	9306	9388
25°	9331	9352	9438
30°	9304	9335	9455
35°	9290	9393	9502
40°	9291	9392	9527
45°	9218	9398	5840
50°	9114	9417	6225
55°	8922	5663	7055
60°	8510	5837	6461
65°	7974	7008	3953
70°	7041	5309	4845
75°	5610	4826	3360
80°	3865	3488	2887
85°	3704	3220	3055



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.3	3.0
10°-20°	1727.3	9.5
20°-30°	2841.8	15.6
30°-40°	3573.1	19.6
40°-50°	3504.3	19.2
50°-60°	2903.5	15.9
60°-70°	2047.9	11.2
70°-80°	893.5	4.9
80°-90°	223.2	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°	5120.4	28.0
0°-40°	8693.5	47.6
0°-60°	15101.4	82.7
0°-90°	18266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6895	6895	6895	6895	6895	
5°	6964	6482	5595	5073	4920	661
15°	6711	4661	6376	6737	6717	1898
25°	6286	5751	6300	6342	6357	2897
35°	5656	5652	5718	5756	5785	3543
45°	4844	4859	4939	4374	3069	3739
55°	3803	3928	2414	2745	3008	3403
65°	2505	2652	2201	1693	1242	2463
75°	1079	1058	928	607	646	1157
85°	240	214	209	200	198	249
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6894.8	6894.8	6894.8	6894.8	6894.8
2.5°	6951.7	6807.4	6578.2	6289.7	6187.4
5°	6964.1	6481.8	5594.7	5072.8	4920.3
7.5°	6928.6	5890.6	4877.4	4987.1	5148.6
10°	6872.6	5371.2	5043.9	5934.3	6273.2
12.5°	6800.8	4909.6	5778.5	6703.6	6771.2
15°	6711.0	4660.6	6376.2	6737.4	6716.7
17.5°	6635.1	4806.5	6590.6	6669.7	6654.9
20°	6528.8	5097.5	6499.1	6562.6	6556.8
22.5°	6421.6	5442.2	6412.5	6457.9	6457.9
25°	6285.6	5751.3	6299.6	6341.6	6357.3
27.5°	6136.3	5929.4	6158.6	6193.2	6221.3
30°	5988.8	5955.0	6008.5	6053.1	6086.0
32.5°	5832.9	5819.7	5861.8	5908.8	5950.8
35°	5655.7	5652.4	5718.3	5756.3	5785.1
37.5°	5489.1	5477.6	5538.6	5591.4	5613.6
40°	5289.6	5289.6	5347.3	5400.9	5424.0
42.5°	5062.1	5094.2	5138.8	5194.0	4677.9
45°	4844.4	4859.3	4939.2	4374.5	3069.4
47.5°	4635.0	4654.0	4729.8	2812.2	2888.9
50°	4353.9	4439.6	4499.0	2803.9	2973.8
52.5°	4148.6	4185.7	3776.8	2775.9	2871.5
55°	3803.2	3927.6	2414.0	2744.6	3007.6
57.5°	3508.0	3598.7	2373.6	2812.2	2975.4
60°	3162.6	3301.1	2169.1	2713.2	2400.8
62.5°	2831.1	2963.1	2264.7	2135.3	2033.1
65°	2504.7	2652.2	2201.3	1693.4	1241.6
67.5°	2146.9	2009.2	1756.1	1193.0	1255.6
70°	1789.9	1403.2	1349.6	1333.9	1231.7
72.5°	1423.0	1024.0	896.2	1000.9	716.4
75°	1079.2	1057.8	928.3	606.8	646.4
77.5°	748.6	763.4	497.1	592.0	491.4
80°	498.8	432.0	450.1	377.6	372.6
82.5°	345.4	352.9	296.0	286.9	291.0
85°	239.9	213.5	208.6	199.5	197.9
87.5°	80.0	93.2	86.6	78.3	83.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)