

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-CLWG-UNV-L735-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 (P33385)  
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-CLWG-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16653.0 lumens  
Efficiency: N/A  
Efficacy: 148.8 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

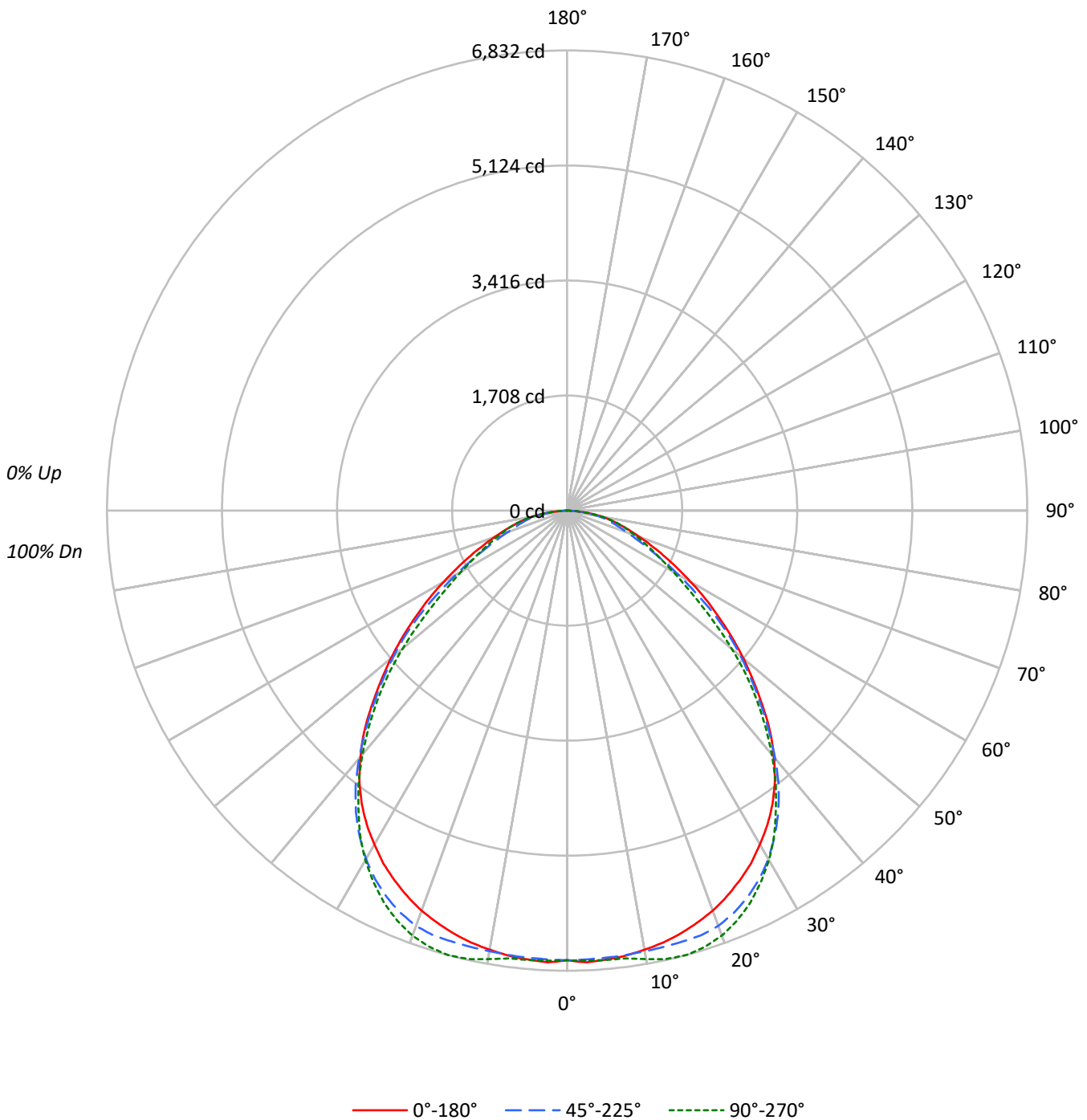
Input Watts (W): 111.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-CLWG-UNV-L735-ED2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-CLWG-UNV-L735-ED2-U

**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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8984	8984	8984
5°	9037	9000	9044
10°	9045	9076	9238
15°	9057	9227	9517
20°	9051	9396	9615
25°	8995	9404	9542
30°	8892	9280	9309
35°	8733	8979	8872
40°	8388	8440	8307
45°	7816	7734	7577
50°	7156	7041	6680
55°	6428	6190	5648
60°	5701	5121	4876
65°	5023	4255	4425
70°	4492	3693	4214
75°	4208	3590	4262
80°	4097	3630	4057
85°	3270	2871	2978



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-CLWG-UNV-L735-ED2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.1	3.8
10°-20°	1873.6	11.3
20°-30°	2882.4	17.3
30°-40°	3363.9	20.2
40°-50°	3125.9	18.8
50°-60°	2317.1	13.9
60°-70°	1416.5	8.5
70°-80°	806.8	4.8
80°-90°	230.7	1.4
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°	5392.1	32.4
0°-40°	8756.0	52.6
0°-60°	14199.0	85.3
0°-90°	16653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16653.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6677	6677	6677	6677	6677	
5°	6691	6660	6664	6658	6696	637
15°	6502	6498	6624	6755	6832	1835
25°	6059	6106	6335	6388	6428	2791
35°	5317	5358	5467	5422	5401	3313
45°	4108	4132	4065	4001	3982	3165
55°	2740	2671	2639	2451	2408	2459
65°	1578	1433	1336	1373	1390	1579
75°	810	760	691	787	820	866
85°	212	207	186	193	193	244
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-CLWG-UNV-L735-ED2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6677.4	6677.4	6677.4	6677.4	6677.4
2.5°	6713.5	6675.7	6668.8	6653.3	6687.7
5°	6691.2	6660.1	6663.6	6658.4	6696.3
7.5°	6665.3	6642.9	6656.7	6655.0	6704.9
10°	6620.5	6608.5	6642.9	6680.8	6761.8
12.5°	6570.6	6558.5	6634.3	6730.8	6818.6
15°	6501.7	6498.3	6624.0	6754.9	6832.4
17.5°	6415.6	6420.7	6611.9	6723.9	6792.8
20°	6320.9	6329.5	6562.0	6653.3	6715.3
22.5°	6198.6	6227.9	6465.5	6541.3	6589.5
25°	6059.1	6105.6	6334.6	6388.0	6427.6
27.5°	5909.2	5955.7	6172.7	6200.3	6222.7
30°	5723.2	5788.7	5973.0	5976.4	5991.9
32.5°	5533.8	5592.3	5733.6	5718.0	5721.5
35°	5316.8	5358.1	5466.6	5421.8	5401.1
37.5°	5067.0	5089.4	5158.3	5091.1	5087.7
40°	4775.9	4805.2	4805.2	4712.2	4729.4
42.5°	4465.9	4476.3	4433.2	4345.4	4359.2
45°	4107.7	4131.8	4064.6	4000.9	3982.0
47.5°	3752.9	3777.0	3706.4	3632.3	3599.6
50°	3418.8	3406.7	3363.7	3237.9	3191.4
52.5°	3072.6	3034.7	3017.5	2833.2	2779.8
55°	2740.2	2671.3	2638.6	2450.8	2407.8
57.5°	2431.9	2307.9	2245.9	2099.5	2082.3
60°	2118.4	1978.9	1903.1	1808.4	1811.9
62.5°	1834.3	1687.9	1596.6	1569.0	1581.1
65°	1577.6	1433.0	1336.5	1372.7	1389.9
67.5°	1345.1	1226.3	1117.8	1202.2	1219.4
70°	1141.9	1047.2	938.7	1062.7	1071.3
72.5°	973.1	895.6	804.3	921.4	940.4
75°	809.5	759.5	690.6	787.1	819.8
77.5°	666.5	626.9	587.3	645.9	682.0
80°	528.7	489.1	468.5	499.5	523.6
82.5°	373.7	347.9	327.2	349.6	361.7
85°	211.8	206.7	186.0	192.9	192.9
87.5°	48.2	55.1	62.0	56.8	48.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)