

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-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 (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-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

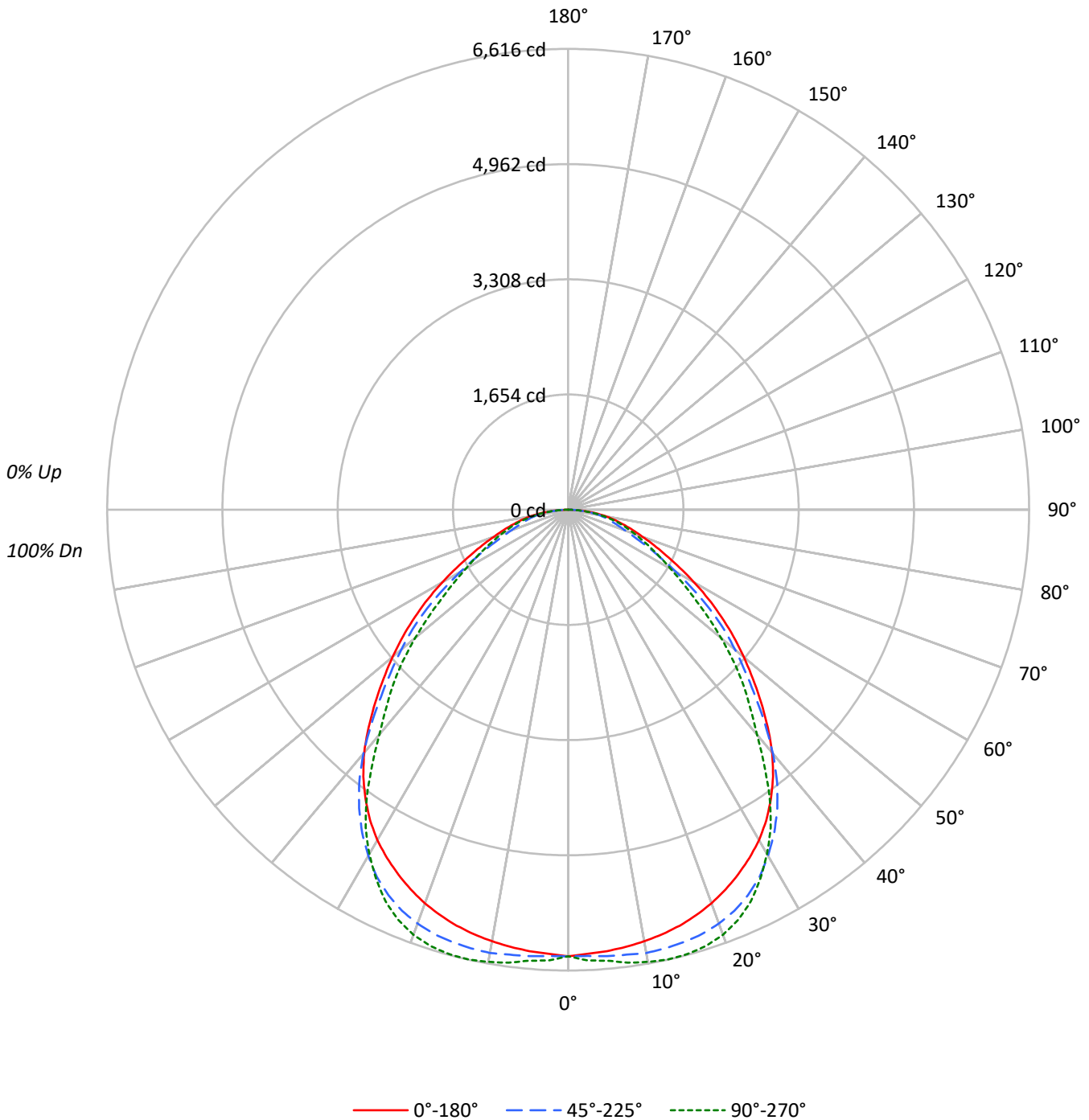
Lumens per Lamp: N/A  
Luminaire Lumens: 15893.0 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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					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°	8626	8626	8626
5°	8593	8689	8777
10°	8595	8828	9006
15°	8612	8951	9203
20°	8610	9053	9297
25°	8572	9065	9212
30°	8509	8914	8867
35°	8328	8592	8279
40°	8003	8026	7401
45°	7449	7236	6766
50°	6885	6543	5996
55°	6303	5799	5173
60°	5620	4813	4569
65°	4929	3961	4198
70°	4450	3412	3997
75°	4253	3344	3986
80°	4288	3540	3889
85°	3798	3243	3395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.9	3.9
10°-20°	1814.9	11.4
20°-30°	2783.8	17.5
30°-40°	3201.8	20.1
40°-50°	2920.3	18.4
50°-60°	2188.7	13.8
60°-70°	1346.3	8.5
70°-80°	771.5	4.9
80°-90°	249.8	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°	5214.6	32.8
0°-40°	8416.3	53.0
0°-60°	13525.3	85.1
0°-90°	15893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6411	6411	6411	6411	6411	
5°	6362	6427	6433	6486	6499	605
15°	6182	6320	6426	6563	6606	1745
25°	5774	5940	6106	6200	6205	2661
35°	5070	5169	5231	5145	5040	3162
45°	3915	4000	3803	3606	3556	3021
55°	2687	2587	2472	2254	2205	2401
65°	1548	1385	1244	1282	1318	1557
75°	818	733	643	736	767	875
85°	246	232	210	222	220	274
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6411.1	6411.1	6411.1	6411.1	6411.1
2.5°	6380.9	6426.6	6411.9	6449.5	6477.3
5°	6362.1	6426.6	6433.2	6486.3	6498.6
7.5°	6330.2	6414.4	6443.8	6537.8	6559.1
10°	6290.9	6392.3	6461.8	6563.1	6591.8
12.5°	6243.5	6361.2	6449.5	6574.6	6615.5
15°	6182.2	6319.6	6425.8	6563.1	6606.5
17.5°	6104.6	6264.0	6388.2	6523.1	6568.1
20°	6013.0	6181.4	6322.8	6461.0	6492.8
22.5°	5902.7	6071.9	6232.9	6357.2	6374.3
25°	5774.3	5940.3	6106.2	6200.2	6205.1
27.5°	5634.5	5789.0	5944.4	5995.0	5973.0
30°	5476.8	5614.9	5737.5	5748.2	5707.3
32.5°	5289.6	5413.8	5501.3	5478.4	5409.8
35°	5070.5	5169.4	5230.7	5144.9	5040.3
37.5°	4830.2	4904.6	4925.0	4738.6	4619.3
40°	4556.4	4620.1	4569.4	4310.3	4213.9
42.5°	4240.8	4314.4	4184.4	3928.6	3869.7
45°	3914.7	3999.7	3802.7	3606.5	3555.8
47.5°	3595.1	3672.7	3449.6	3291.8	3216.6
50°	3289.3	3322.9	3125.9	2947.7	2864.3
52.5°	2988.5	2955.0	2815.2	2593.7	2520.1
55°	2686.9	2587.2	2471.9	2253.7	2205.4
57.5°	2384.4	2245.5	2119.6	1952.0	1933.2
60°	2088.5	1917.7	1788.5	1688.8	1697.8
62.5°	1806.5	1632.4	1494.3	1462.4	1496.7
65°	1548.2	1384.7	1244.1	1282.5	1318.5
67.5°	1333.2	1176.3	1033.2	1131.3	1159.9
70°	1131.3	1004.6	867.3	994.0	1016.1
72.5°	970.3	862.4	743.0	866.5	885.3
75°	818.2	733.2	643.3	736.5	766.7
77.5°	685.8	615.5	554.2	609.0	641.7
80°	553.4	493.7	456.9	481.5	501.9
82.5°	405.4	367.0	340.1	350.7	353.9
85°	246.0	232.2	210.1	221.5	219.9
87.5°	80.9	92.4	97.3	87.5	82.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)