

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-LD5-12HE-W-AWG-UNV-L740-ED1-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-LD5-12HE-W-AWG-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

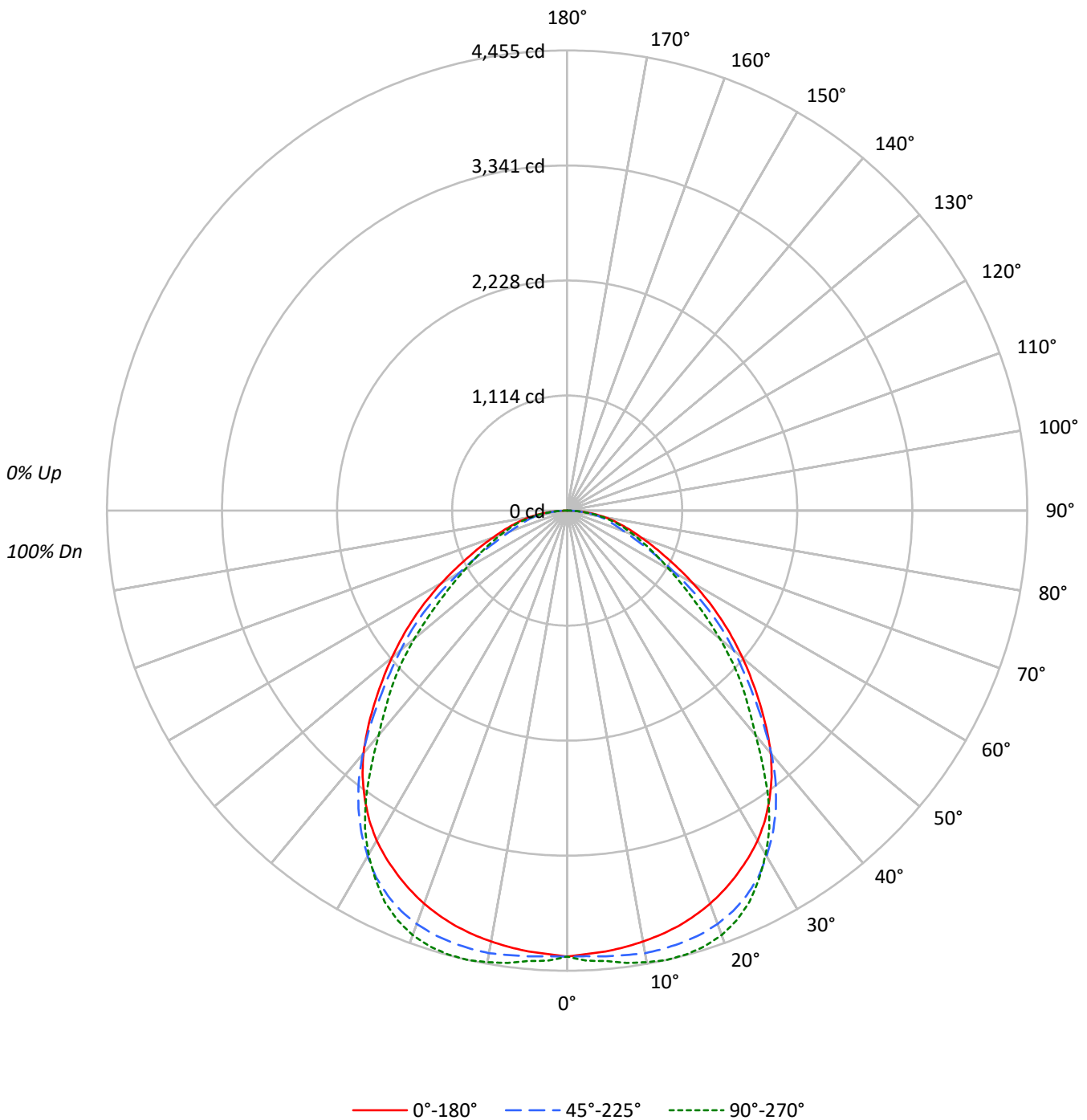
Lumens per Lamp: N/A  
Luminaire Lumens: 10703.0 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.6  
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-LD5-12HE-W-AWG-UNV-L740-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-AWG-UNV-L740-ED1-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	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°	5809	5809	5809
5°	5787	5851	5911
10°	5788	5945	6065
15°	5799	6028	6197
20°	5798	6097	6261
25°	5773	6105	6204
30°	5730	6003	5971
35°	5609	5786	5575
40°	5389	5405	4984
45°	5016	4873	4556
50°	4637	4406	4038
55°	4245	3905	3484
60°	3785	3241	3077
65°	3319	2667	2827
70°	2997	2298	2692
75°	2864	2252	2685
80°	2888	2384	2619
85°	2558	2184	2286



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-AWG-UNV-L740-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.7	3.9
10°-20°	1222.2	11.4
20°-30°	1874.7	17.5
30°-40°	2156.2	20.1
40°-50°	1966.6	18.4
50°-60°	1474.0	13.8
60°-70°	906.7	8.5
70°-80°	519.6	4.9
80°-90°	168.2	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°	3511.7	32.8
0°-40°	5667.9	53.0
0°-60°	9108.5	85.1
0°-90°	10703.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10703.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4318	4318	4318	4318	4318	
5°	4284	4328	4332	4368	4376	407
15°	4163	4256	4327	4420	4449	1175
25°	3889	4000	4112	4176	4179	1792
35°	3415	3481	3523	3465	3394	2130
45°	2636	2694	2561	2429	2395	2035
55°	1810	1742	1665	1518	1485	1617
65°	1043	932	838	864	888	1048
75°	551	494	433	496	516	589
85°	166	156	142	149	148	185
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-12HE-W-AWG-UNV-L740-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4317.5	4317.5	4317.5	4317.5	4317.5
2.5°	4297.1	4328.0	4318.1	4343.4	4362.1
5°	4284.5	4328.0	4332.4	4368.1	4376.4
7.5°	4263.0	4319.7	4339.5	4402.8	4417.1
10°	4236.6	4304.8	4351.6	4419.9	4439.2
12.5°	4204.7	4283.9	4343.4	4427.6	4455.1
15°	4163.4	4255.8	4327.4	4419.9	4449.1
17.5°	4111.1	4218.4	4302.1	4392.9	4423.2
20°	4049.4	4162.8	4258.0	4351.1	4372.6
22.5°	3975.1	4089.0	4197.5	4281.2	4292.7
25°	3888.7	4000.4	4112.2	4175.5	4178.8
27.5°	3794.5	3898.6	4003.2	4037.3	4022.4
30°	3688.3	3781.3	3863.9	3871.1	3843.5
32.5°	3562.2	3645.9	3704.8	3689.4	3643.2
35°	3414.7	3481.3	3522.6	3464.8	3394.3
37.5°	3252.9	3302.9	3316.7	3191.2	3110.8
40°	3068.4	3111.4	3077.2	2902.7	2837.8
42.5°	2855.9	2905.5	2818.0	2645.7	2606.0
45°	2636.3	2693.6	2560.9	2428.8	2394.6
47.5°	2421.1	2473.4	2323.1	2216.8	2166.2
50°	2215.2	2237.7	2105.1	1985.1	1928.9
52.5°	2012.6	1990.0	1895.9	1746.7	1697.2
55°	1809.5	1742.3	1664.7	1517.7	1485.2
57.5°	1605.8	1512.2	1427.4	1314.6	1301.9
60°	1406.5	1291.5	1204.5	1137.3	1143.4
62.5°	1216.6	1099.3	1006.3	984.8	1007.9
65°	1042.6	932.5	837.8	863.7	887.9
67.5°	897.9	792.2	695.8	761.9	781.1
70°	761.9	676.6	584.1	669.4	684.3
72.5°	653.4	580.8	500.4	583.5	596.2
75°	551.0	493.8	433.2	496.0	516.4
77.5°	461.9	414.5	373.2	410.1	432.1
80°	372.7	332.5	307.7	324.2	338.0
82.5°	273.0	247.2	229.0	236.2	238.4
85°	165.7	156.3	141.5	149.2	148.1
87.5°	54.5	62.2	65.5	58.9	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)