

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-LD5-48HE-W-AI-UNV-L735-ED4-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 (P23765)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-48HE-W-AI-UNV-L735-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

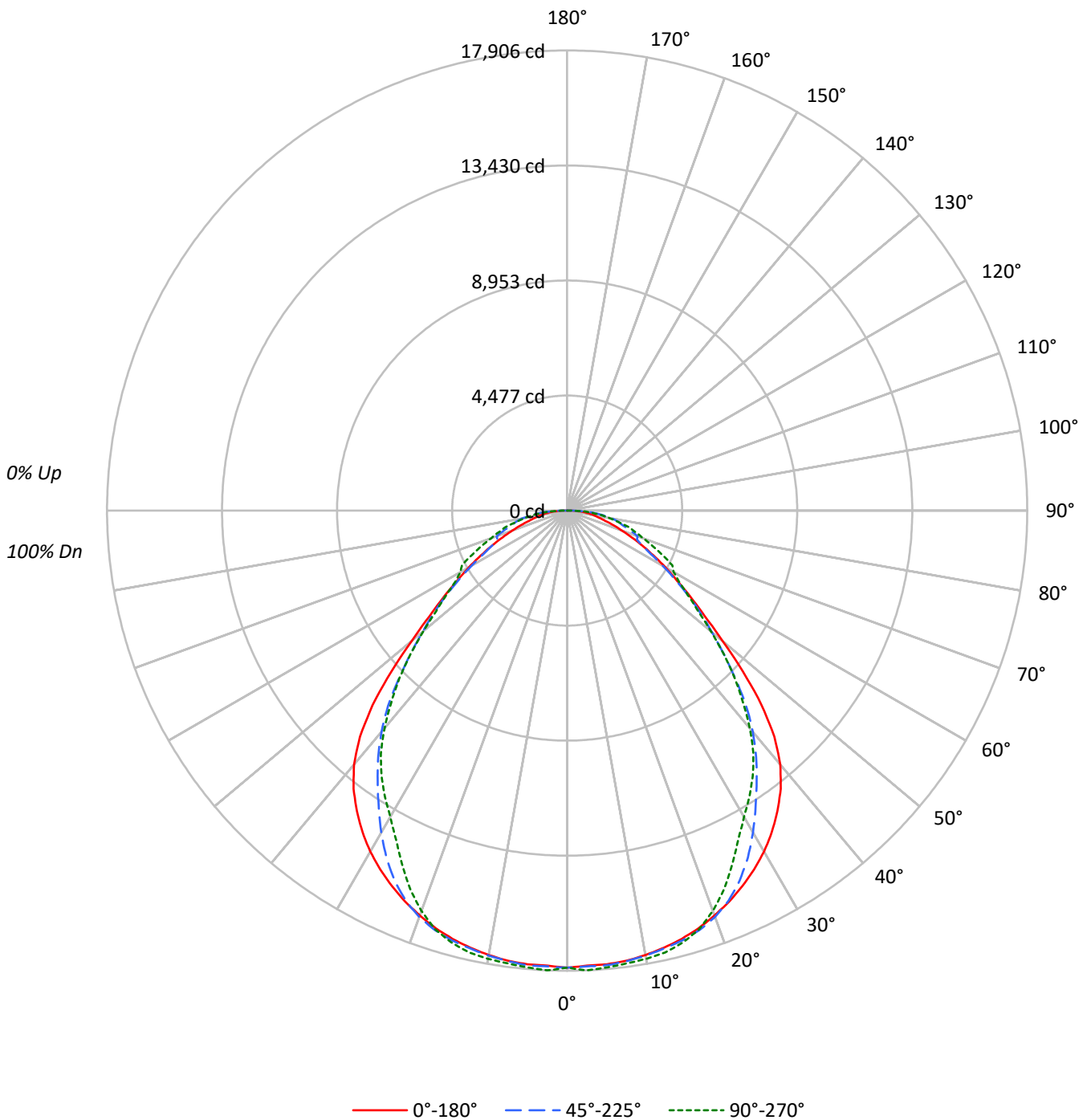
Lumens per Lamp: N/A  
Luminaire Lumens: 41171.0 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 286.2  
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					29				

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

	0°	45°	90°
0°	23932	23932	23932
5°	23931	23983	24100
10°	23991	24021	24197
15°	24028	24117	24235
20°	24003	24093	23735
25°	23943	23584	22558
30°	23801	22471	21376
35°	23443	21121	20681
40°	22659	19748	19422
45°	20366	17634	17569
50°	16519	15359	15254
55°	13716	13461	13456
60°	11875	11528	12889
65°	10292	10228	12992
70°	8875	11473	12384
75°	7958	11759	12911
80°	8271	13843	12954
85°	9391	15952	14800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1693.6	4.1
10°-20°	4891.2	11.9
20°-30°	7264.4	17.6
30°-40°	8247.1	20.0
40°-50°	7372.6	17.9
50°-60°	5097.4	12.4
60°-70°	3363.6	8.2
70°-80°	2269.2	5.5
80°-90°	971.9	2.4
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°	13849.1	33.6
0°-40°	22096.3	53.7
0°-60°	34566.3	84.0
0°-90°	41171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17787	17787	17787	17787	17787	
5°	17719	17827	17757	17829	17844	###
15°	17249	17332	17314	17410	17398	4869
25°	16128	16280	15886	15412	15195	7431
35°	14272	13972	12858	12671	12591	8900
45°	10703	9797	9267	9338	9233	8140
55°	5847	5338	5738	5658	5736	5311
65°	3233	2870	3213	3756	4081	3226
75°	1531	1926	2262	2417	2484	1672
85°	608	846	1033	1039	959	634
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17787.1	17787.1	17787.1	17787.1	17787.1
2.5°	17726.7	17837.5	17754.9	17831.5	17906.0
5°	17718.7	17827.4	17756.9	17829.4	17843.5
7.5°	17668.3	17769.0	17686.4	17756.9	17773.0
10°	17559.5	17678.4	17581.7	17690.5	17710.6
12.5°	17418.6	17539.4	17454.8	17603.9	17611.9
15°	17249.4	17331.9	17313.8	17410.5	17398.4
17.5°	17035.9	17130.5	17116.4	17140.6	17084.2
20°	16763.9	16870.7	16826.4	16715.6	16576.6
22.5°	16471.9	16600.8	16425.6	16145.6	15950.2
25°	16127.5	16280.5	15885.8	15412.4	15194.9
27.5°	15746.8	15883.8	15227.1	14647.1	14421.5
30°	15319.8	15378.2	14463.8	13911.9	13758.8
32.5°	14826.3	14741.7	13648.0	13283.5	13194.8
35°	14272.4	13972.3	12858.5	12671.2	12590.6
37.5°	13648.0	13098.2	12079.0	11992.4	11907.8
40°	12900.8	12089.1	11243.1	11186.7	11057.8
42.5°	11936.0	10991.3	10314.6	10248.1	10133.3
45°	10703.3	9796.9	9267.2	9337.7	9233.0
47.5°	9285.3	8598.5	8262.1	8455.5	8262.1
50°	7891.5	7430.3	7337.6	7512.9	7287.3
52.5°	6749.5	6334.6	6525.9	6556.1	6421.2
55°	5847.1	5337.6	5738.4	5657.8	5736.4
57.5°	5061.6	4491.6	4985.1	4892.4	5162.3
60°	4413.0	3772.5	4284.1	4264.0	4789.7
62.5°	3776.6	3265.0	3675.9	3971.9	4618.5
65°	3232.7	2870.2	3212.6	3756.4	4080.7
67.5°	2711.1	2574.1	2938.7	3240.8	3595.3
70°	2255.9	2326.4	2916.5	2860.1	3148.1
72.5°	1873.2	2112.9	2574.1	2584.2	2787.6
75°	1530.8	1925.5	2261.9	2417.0	2483.5
77.5°	1273.0	1746.3	2042.4	2096.8	2032.3
80°	1067.5	1538.8	1786.6	1762.4	1671.8
82.5°	862.1	1166.2	1407.9	1430.1	1323.3
85°	608.3	846.0	1033.3	1039.3	958.7
87.5°	326.3	521.7	626.4	644.5	596.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)