

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-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 (P23760)  
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-UNV-L735-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

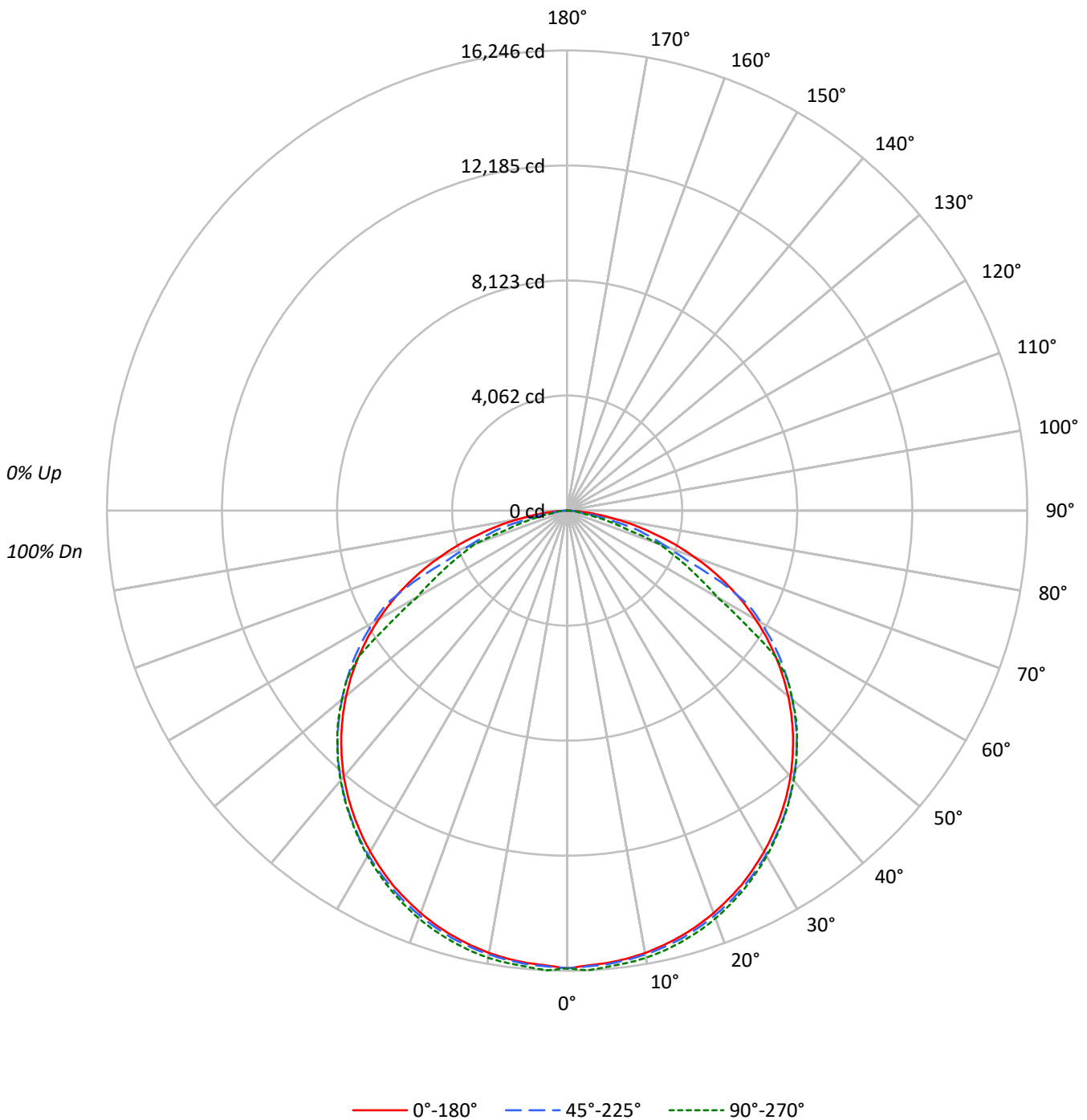
Lumens per Lamp: N/A  
Luminaire Lumens: 46655.0 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	21744	21744	21744
5°	21655	21715	21838
10°	21667	21744	21908
15°	21661	21777	21928
20°	21650	21789	21941
25°	21642	21797	21918
30°	21604	21815	21896
35°	21577	21825	21854
40°	21538	21824	21858
45°	21457	21814	21840
50°	21329	21722	21718
55°	21080	21607	21071
60°	20689	21288	16486
65°	19998	19159	14854
70°	18735	14741	13689
75°	16589	12852	8531
80°	13661	7566	3813
85°	9003	4636	4996



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1533.6	3.3
10°-20°	4424.5	9.5
20°-30°	6783.3	14.5
30°-40°	8319.1	17.8
40°-50°	8833.5	18.9
50°-60°	8068.3	17.3
60°-70°	5618.8	12.0
70°-80°	2620.6	5.6
80°-90°	453.3	1.0
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°	12741.4	27.3
0°-40°	21060.5	45.1
0°-60°	37962.3	81.4
0°-90°	46655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16161	16161	16161	16161	16161	
5°	16033	16145	16078	16155	16169	###
15°	15550	15659	15634	15729	15742	4391
25°	14578	14706	14682	14791	14764	6718
35°	13136	13288	13288	13377	13305	8220
45°	11276	11447	11464	11538	11478	8697
55°	8986	9166	9211	9226	8982	8025
65°	6281	6475	6018	4786	4666	6198
75°	3191	3393	2472	1713	1641	3411
85°	583	384	300	322	324	753
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16160.9	16160.9	16160.9	16160.9	16160.9
2.5°	16075.6	16178.3	16110.5	16184.1	16246.1
5°	16033.0	16145.4	16077.6	16155.1	16168.6
7.5°	15963.2	16069.8	16007.8	16093.1	16114.4
10°	15858.6	15963.2	15914.8	16015.6	16034.9
12.5°	15717.2	15823.7	15786.9	15897.4	15910.9
15°	15550.5	15659.0	15633.9	15728.8	15742.4
17.5°	15354.9	15467.2	15438.2	15538.9	15548.6
20°	15120.4	15242.5	15217.3	15335.5	15323.9
22.5°	14856.9	14986.7	14967.4	15085.5	15050.7
25°	14577.9	14705.8	14682.5	14791.0	14763.9
27.5°	14250.5	14391.9	14370.6	14475.2	14432.6
30°	13905.6	14049.0	14041.2	14136.2	14093.5
32.5°	13533.6	13686.7	13678.9	13771.9	13706.0
35°	13136.4	13287.5	13287.5	13376.6	13305.0
37.5°	12716.0	12869.0	12871.0	12956.2	12888.4
40°	12262.6	12415.6	12425.3	12506.7	12444.7
42.5°	11785.9	11952.6	11960.3	12033.9	11975.8
45°	11276.4	11446.9	11464.3	11537.9	11477.9
47.5°	10743.6	10916.0	10931.5	11010.9	10968.3
50°	10189.4	10356.1	10377.4	10443.2	10375.4
52.5°	9604.3	9774.8	9803.9	9844.5	9813.5
55°	8986.2	9166.4	9211.0	9226.5	8982.4
57.5°	8346.8	8530.9	8573.5	8217.0	7432.3
60°	7688.1	7870.2	7910.9	6684.4	6126.4
62.5°	7002.2	7180.5	7225.0	5539.4	5361.1
65°	6281.4	6475.2	6017.9	4785.7	4665.6
67.5°	5541.3	5740.9	4551.2	4101.7	4030.0
70°	4762.4	4963.9	3747.2	3497.2	3479.8
72.5°	4014.5	4163.7	3074.8	2650.5	2232.0
75°	3191.1	3392.6	2472.3	1712.8	1641.1
77.5°	2474.2	2139.0	1491.9	1255.5	990.1
80°	1763.1	1429.9	976.5	521.2	492.1
82.5°	1117.9	933.9	383.6	393.3	410.8
85°	583.2	383.6	300.3	321.6	323.6
87.5°	187.9	164.7	180.2	178.3	176.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)