

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-CLI-UNV-L740-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 (P23766)  
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-CLI-UNV-L740-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

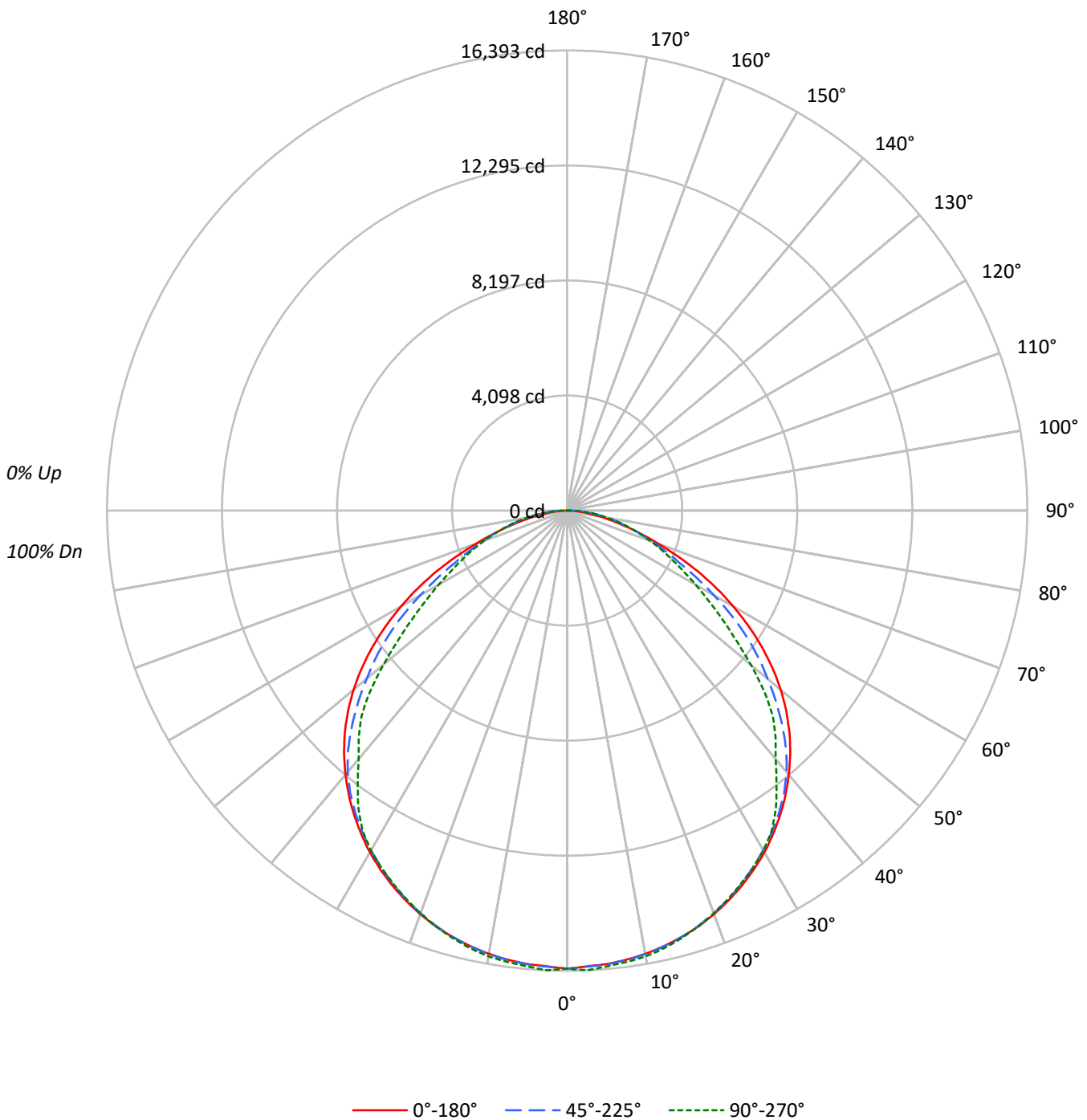
Lumens per Lamp: N/A  
Luminaire Lumens: 43844.0 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-48HE-W-CLI-UNV-L740-ED4-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48HE-W-CLI-UNV-L740-ED4-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	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

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

	0°	45°	90°
0°	21957	21957	21957
5°	21898	21914	22012
10°	21910	21921	22036
15°	21913	21910	21962
20°	21908	21857	21863
25°	21874	21793	21766
30°	21838	21707	21720
35°	21737	21601	21296
40°	21581	21361	20284
45°	21308	20626	19723
50°	20795	19528	17863
55°	19848	18263	15795
60°	18420	16295	14244
65°	16372	14108	13098
70°	13587	12608	12346
75°	10989	11539	11681
80°	8729	11035	10990
85°	6834	11856	11311



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48HE-W-CLI-UNV-L740-ED4-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1547.6	3.5
10°-20°	4451.5	10.2
20°-30°	6787.8	15.5
30°-40°	8212.3	18.7
40°-50°	8318.3	19.0
50°-60°	6875.3	15.7
60°-70°	4541.0	10.4
70°-80°	2367.8	5.4
80°-90°	742.3	1.7
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°	12787.0	29.2
0°-40°	20999.3	47.9
0°-60°	36192.8	82.5
0°-90°	43844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43844.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16319	16319	16319	16319	16319	
5°	16213	16311	16225	16296	16297	###
15°	15731	15812	15729	15778	15766	4442
25°	14734	14793	14679	14716	14662	6794
35°	13234	13251	13151	13134	12965	8277
45°	11198	11169	10840	10502	10365	8623
55°	8461	8336	7785	7029	6733	7541
65°	5142	4994	4431	4143	4114	5079
75°	2114	2151	2220	2249	2247	2303
85°	443	570	768	762	733	537
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48HE-W-CLI-UNV-L740-ED4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16319.0	16319.0	16319.0	16319.0	16319.0
2.5°	16250.4	16346.4	16266.1	16336.6	16393.4
5°	16213.2	16311.1	16224.9	16295.5	16297.4
7.5°	16140.7	16238.7	16150.5	16221.0	16219.1
10°	16036.9	16129.0	16044.7	16129.0	16129.0
12.5°	15895.8	15985.9	15903.7	15982.0	15970.3
15°	15731.3	15811.6	15729.3	15778.3	15766.5
17.5°	15537.3	15609.8	15517.7	15558.9	15535.4
20°	15300.3	15366.9	15265.0	15317.9	15268.9
22.5°	15033.8	15096.5	14992.7	15031.9	14977.0
25°	14734.1	14792.9	14679.3	14716.5	14661.6
27.5°	14410.9	14463.8	14336.4	14381.5	14338.4
30°	14056.3	14081.7	13972.0	14030.8	13979.9
32.5°	13660.5	13676.2	13580.2	13633.1	13546.9
35°	13233.5	13251.1	13151.2	13133.6	12965.1
37.5°	12777.0	12784.8	12690.8	12532.1	12253.9
40°	12287.2	12283.3	12161.9	11795.5	11548.7
42.5°	11764.2	11762.2	11548.7	11131.4	10990.3
45°	11198.0	11168.6	10839.5	10502.5	10365.4
47.5°	10590.7	10559.3	10099.0	9830.6	9519.1
50°	9934.4	9879.5	9329.1	8962.7	8533.7
52.5°	9227.2	9142.9	8582.6	7991.0	7585.5
55°	8461.2	8335.8	7785.3	7029.1	6733.3
57.5°	7663.8	7477.7	6942.9	6206.3	5965.3
60°	6845.0	6637.3	6055.5	5450.1	5293.4
62.5°	6002.6	5796.9	5203.3	4746.8	4660.6
65°	5142.5	4993.6	4431.4	4143.4	4114.0
67.5°	4261.0	4208.1	3779.0	3632.1	3620.3
70°	3453.8	3444.0	3205.0	3130.6	3138.4
72.5°	2760.3	2748.6	2713.3	2676.1	2678.0
75°	2113.8	2151.0	2219.6	2249.0	2247.0
77.5°	1577.0	1653.4	1798.4	1857.2	1847.4
80°	1126.5	1240.1	1424.2	1479.1	1418.4
82.5°	750.3	869.8	1087.3	1095.1	1046.1
85°	442.7	570.1	768.0	762.1	732.7
87.5°	219.4	342.8	460.4	440.8	421.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)