

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-L750-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-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

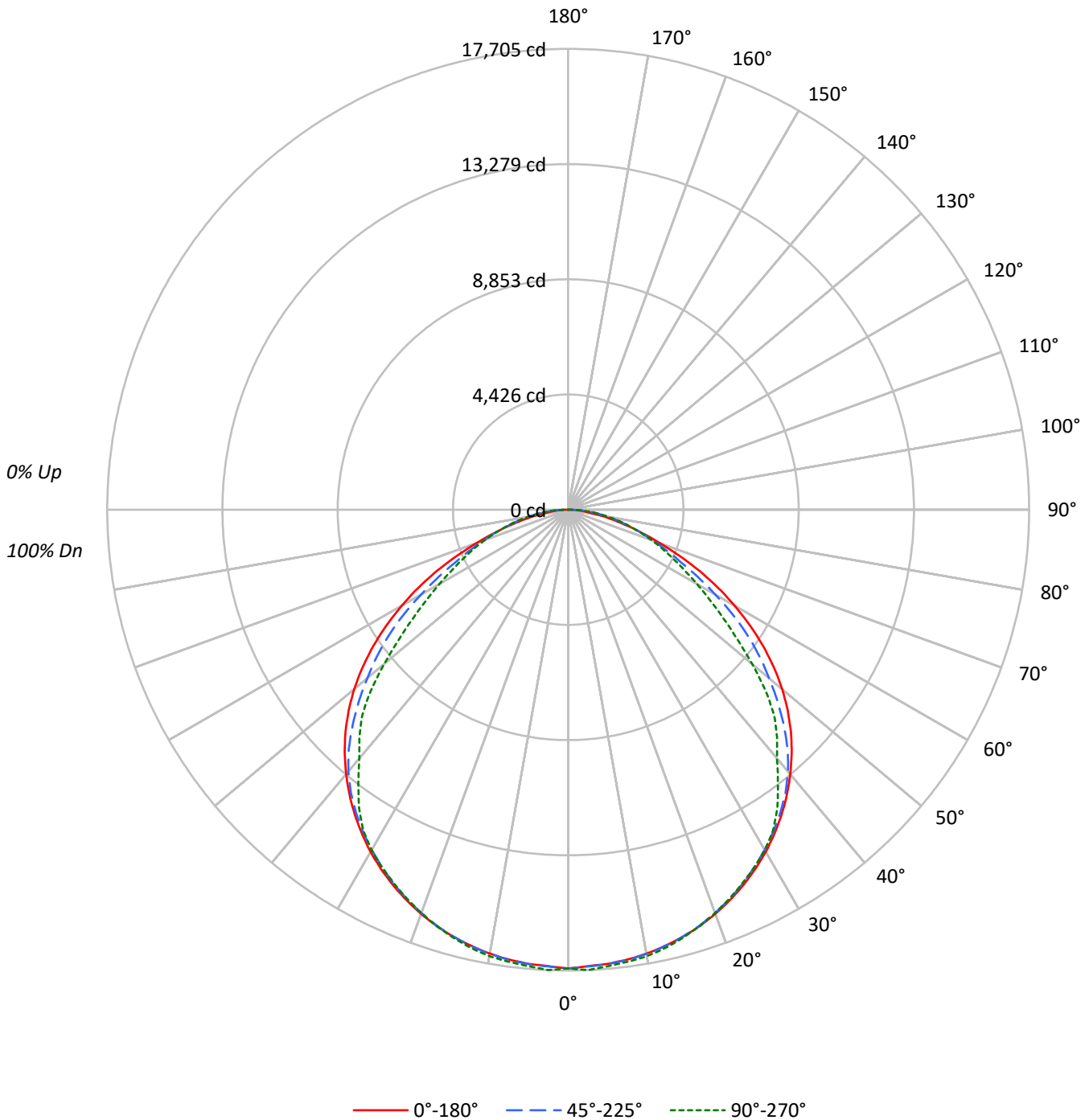
Lumens per Lamp: N/A  
Luminaire Lumens: 47352.0 lumens  
Efficiency: N/A  
Efficacy: 165.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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-L750-ED4-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48HE-W-CLI-UNV-L750-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°	23714	23714	23714
5°	23650	23667	23773
10°	23663	23675	23799
15°	23666	23663	23719
20°	23660	23606	23612
25°	23624	23536	23508
30°	23586	23444	23457
35°	23476	23330	22999
40°	23308	23070	21907
45°	23013	22276	21301
50°	22459	21090	19292
55°	21436	19724	17059
60°	19893	17599	15384
65°	17682	15237	14146
70°	14674	13617	13334
75°	11868	12462	12616
80°	9427	11919	11869
85°	7382	12804	12216



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48HE-W-CLI-UNV-L750-ED4-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1671.4	3.5
10°-20°	4807.7	10.2
20°-30°	7330.9	15.5
30°-40°	8869.3	18.7
40°-50°	8983.9	19.0
50°-60°	7425.4	15.7
60°-70°	4904.3	10.4
70°-80°	2557.3	5.4
80°-90°	801.7	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°	13810.1	29.2
0°-40°	22679.4	47.9
0°-60°	39088.7	82.5
0°-90°	47352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47352.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17625	17625	17625	17625	17625	
5°	17510	17616	17523	17599	17601	###
15°	16990	17077	16988	17041	17028	4798
25°	15913	15976	15854	15894	15835	7337
35°	14292	14311	14203	14184	14002	8940
45°	12094	12062	11707	11343	11195	9312
55°	9138	9003	8408	7592	7272	8145
65°	5554	5393	4786	4475	4443	5486
75°	2283	2323	2397	2429	2427	2487
85°	478	616	829	823	791	580
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48HE-W-CLI-UNV-L750-ED4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17624.7	17624.7	17624.7	17624.7	17624.7
2.5°	17550.6	17654.3	17567.6	17643.7	17705.1
5°	17510.4	17616.2	17523.1	17599.3	17601.4
7.5°	17432.1	17537.9	17442.7	17518.9	17516.8
10°	17320.0	17419.4	17328.5	17419.4	17419.4
12.5°	17167.7	17265.0	17176.1	17260.8	17248.1
15°	16989.9	17076.7	16987.8	17040.7	17028.0
17.5°	16780.5	16858.8	16759.3	16803.7	16778.4
20°	16524.5	16596.4	16486.4	16543.5	16490.6
22.5°	16236.7	16304.4	16192.3	16234.6	16175.4
25°	15913.0	15976.5	15853.8	15894.0	15834.7
27.5°	15563.9	15621.0	15483.5	15532.1	15485.6
30°	15180.9	15208.4	15089.9	15153.4	15098.4
32.5°	14753.5	14770.5	14666.8	14723.9	14630.8
35°	14292.3	14311.3	14203.4	14184.4	14002.4
37.5°	13799.3	13807.8	13706.2	13534.8	13234.4
40°	13270.3	13266.1	13134.9	12739.3	12472.7
42.5°	12705.4	12703.3	12472.7	12022.0	11869.7
45°	12094.0	12062.2	11706.8	11342.8	11194.7
47.5°	11438.1	11404.2	10907.0	10617.1	10280.7
50°	10729.3	10670.0	10075.5	9679.8	9216.5
52.5°	9965.5	9874.5	9269.4	8630.4	8192.4
55°	9138.2	9002.8	8408.2	7591.5	7272.0
57.5°	8277.0	8076.0	7498.4	6702.9	6442.6
60°	7392.6	7168.4	6540.0	5886.2	5716.9
62.5°	6482.8	6260.7	5619.6	5126.6	5033.5
65°	5554.0	5393.2	4786.0	4474.9	4443.2
67.5°	4601.9	4544.8	4081.4	3922.7	3910.0
70°	3730.2	3719.6	3461.5	3381.1	3389.5
72.5°	2981.2	2968.5	2930.4	2890.2	2892.3
75°	2283.0	2323.2	2397.2	2428.9	2426.8
77.5°	1703.2	1785.7	1942.3	2005.8	1995.2
80°	1216.6	1339.3	1538.2	1597.4	1531.8
82.5°	810.4	939.4	1174.3	1182.7	1129.8
85°	478.2	615.7	829.4	823.0	791.3
87.5°	237.0	370.3	497.2	476.1	454.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)