

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-LD5-48SE-W-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 (P23760)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-48SE-W-UNV-L750-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

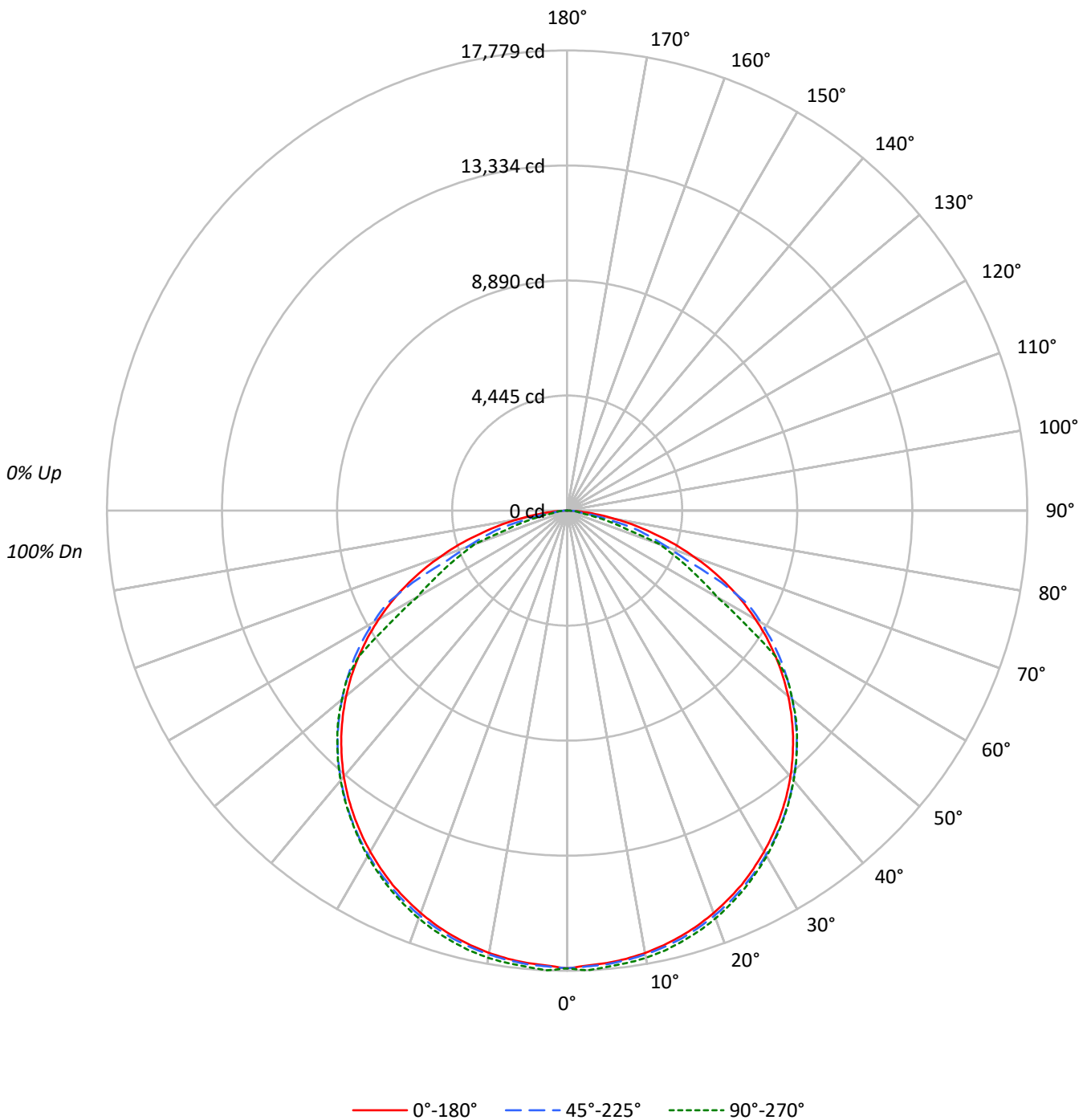
Lumens per Lamp: N/A  
Luminaire Lumens: 51058.0 lumens  
Efficiency: N/A  
Efficacy: 170.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 299.1  
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°	23796	23796	23796
5°	23698	23764	23899
10°	23711	23795	23975
15°	23705	23832	23998
20°	23693	23845	24012
25°	23685	23855	23987
30°	23643	23874	23963
35°	23613	23885	23916
40°	23571	23884	23921
45°	23482	23873	23901
50°	23341	23772	23768
55°	23069	23646	23059
60°	22641	23297	18042
65°	21885	20968	16256
70°	20503	16132	14981
75°	18155	14065	9337
80°	14950	8281	4173
85°	9852	5074	5467



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1678.3	3.3
10°-20°	4842.1	9.5
20°-30°	7423.5	14.5
30°-40°	9104.2	17.8
40°-50°	9667.1	18.9
50°-60°	8829.7	17.3
60°-70°	6149.0	12.0
70°-80°	2867.9	5.6
80°-90°	496.1	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°	13943.9	27.3
0°-40°	23048.1	45.1
0°-60°	41544.9	81.4
0°-90°	51058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17686	17686	17686	17686	17686	
5°	17546	17669	17595	17680	17694	###
15°	17018	17137	17109	17213	17228	4806
25°	15954	16094	16068	16187	16157	7352
35°	14376	14542	14542	14639	14561	8996
45°	12341	12527	12546	12627	12561	9517
55°	9834	10032	10080	10097	9830	8783
65°	6874	7086	6586	5237	5106	6783
75°	3492	3713	2706	1874	1796	3733
85°	638	420	329	352	354	824
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17686.0	17686.0	17686.0	17686.0	17686.0
2.5°	17592.7	17705.1	17630.9	17711.5	17779.3
5°	17546.1	17669.1	17594.9	17679.7	17694.5
7.5°	17469.7	17586.4	17518.5	17611.8	17635.1
10°	17355.2	17469.7	17416.7	17527.0	17548.2
12.5°	17200.5	17317.1	17276.8	17397.7	17412.5
15°	17018.1	17136.9	17109.3	17213.2	17228.0
17.5°	16804.0	16926.9	16895.1	17005.4	17016.0
20°	16547.4	16681.0	16653.4	16782.7	16770.0
22.5°	16259.0	16401.1	16379.9	16509.2	16471.1
25°	15953.7	16093.6	16068.2	16186.9	16157.2
27.5°	15595.3	15750.1	15726.8	15841.3	15794.7
30°	15217.9	15374.8	15366.3	15470.2	15423.6
32.5°	14810.8	14978.3	14969.8	15071.6	14999.5
35°	14376.1	14541.5	14541.5	14639.1	14560.6
37.5°	13916.0	14083.5	14085.6	14178.9	14104.7
40°	13419.8	13587.3	13597.9	13687.0	13619.2
42.5°	12898.2	13080.6	13089.1	13169.6	13106.0
45°	12340.6	12527.2	12546.2	12626.8	12561.1
47.5°	11757.5	11946.2	11963.1	12050.1	12003.4
50°	11151.0	11333.4	11356.7	11428.8	11354.6
52.5°	10510.7	10697.3	10729.1	10773.6	10739.7
55°	9834.3	10031.5	10080.3	10097.2	9830.0
57.5°	9134.6	9336.0	9382.6	8992.5	8133.7
60°	8413.6	8613.0	8657.5	7315.3	6704.6
62.5°	7663.0	7858.1	7906.9	6062.1	5867.1
65°	6874.2	7086.3	6585.9	5237.3	5105.9
67.5°	6064.3	6282.7	4980.8	4488.8	4410.4
70°	5211.9	5432.4	4100.8	3827.3	3808.2
72.5°	4393.4	4556.7	3365.0	2900.7	2442.7
75°	3492.3	3712.8	2705.6	1874.4	1796.0
77.5°	2707.7	2340.9	1632.7	1374.0	1083.5
80°	1929.5	1564.8	1068.7	570.4	538.6
82.5°	1223.5	1022.0	419.8	430.4	449.5
85°	638.2	419.8	328.7	352.0	354.1
87.5°	205.7	180.2	197.2	195.1	193.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)