

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-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-LD5-48HE-W-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

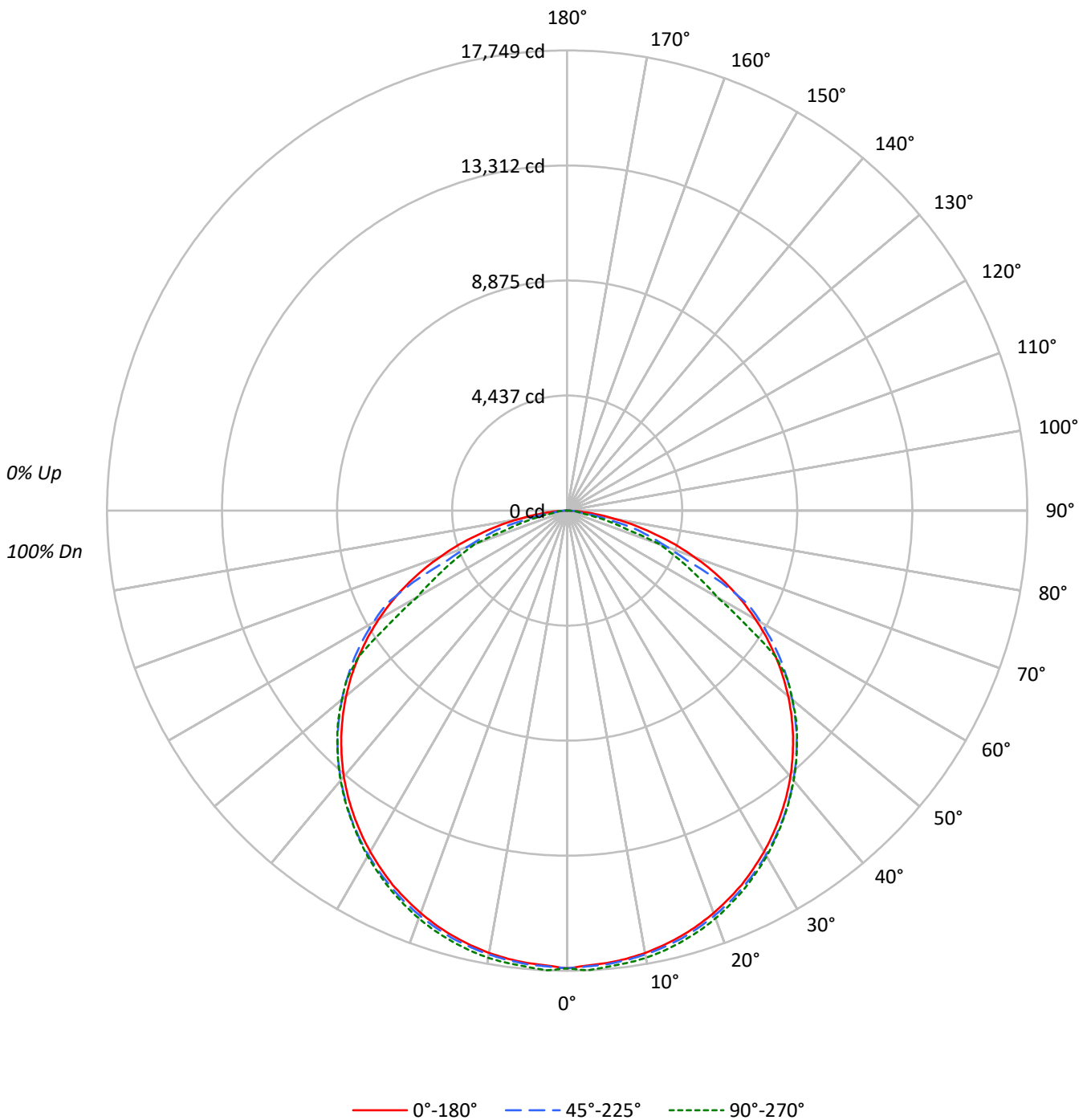
Lumens per Lamp: N/A
Luminaire Lumens: 50971.0 lumens
Efficiency: N/A
Efficacy: 178.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	23756	23756	23756
5°	23658	23724	23858
10°	23671	23755	23934
15°	23665	23792	23957
20°	23653	23804	23971
25°	23644	23814	23946
30°	23603	23833	23922
35°	23573	23844	23876
40°	23531	23843	23880
45°	23442	23832	23861
50°	23302	23732	23727
55°	23030	23606	23020
60°	22602	23257	18011
65°	21848	20932	16228
70°	20468	16105	14956
75°	18124	14041	9321
80°	14926	8266	4166
85°	9835	5065	5457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1675.4	3.3
10°-20°	4833.8	9.5
20°-30°	7410.9	14.5
30°-40°	9088.6	17.8
40°-50°	9650.7	18.9
50°-60°	8814.7	17.3
60°-70°	6138.6	12.0
70°-80°	2863.0	5.6
80°-90°	495.3	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°	13920.1	27.3
0°-40°	23008.8	45.1
0°-60°	41474.2	81.4
0°-90°	50971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17656	17656	17656	17656	17656	
5°	17516	17639	17565	17650	17664	###
15°	16989	17108	17080	17184	17199	4797
25°	15926	16066	16041	16159	16130	7340
35°	14352	14517	14517	14614	14536	8981
45°	12320	12506	12525	12605	12540	9501
55°	9818	10014	10063	10080	9813	8768
65°	6862	7074	6575	5228	5097	6771
75°	3486	3706	2701	1871	1793	3727
85°	637	419	328	351	354	823
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17655.9	17655.9	17655.9	17655.9	17655.9
2.5°	17562.8	17674.9	17600.9	17681.3	17749.0
5°	17516.2	17639.0	17564.9	17649.5	17664.4
7.5°	17440.0	17556.4	17488.7	17581.8	17605.1
10°	17325.7	17440.0	17387.1	17497.1	17518.3
12.5°	17171.2	17287.6	17247.4	17368.0	17382.8
15°	16989.1	17107.6	17080.1	17183.9	17198.7
17.5°	16775.3	16898.1	16866.3	16976.4	16987.0
20°	16519.2	16652.5	16625.0	16754.2	16741.5
22.5°	16231.3	16373.1	16352.0	16481.1	16443.0
25°	15926.5	16066.2	16040.8	16159.3	16129.7
27.5°	15568.8	15723.3	15700.0	15814.3	15767.7
30°	15192.0	15348.6	15340.2	15443.9	15397.3
32.5°	14785.6	14952.8	14944.3	15045.9	14974.0
35°	14351.6	14516.7	14516.7	14614.1	14535.8
37.5°	13892.3	14059.5	14061.6	14154.8	14080.7
40°	13397.0	13564.2	13574.8	13663.7	13595.9
42.5°	12876.2	13058.3	13066.8	13147.2	13083.7
45°	12319.5	12505.8	12524.9	12605.3	12539.7
47.5°	11737.4	11925.8	11942.8	12029.5	11983.0
50°	11132.0	11314.1	11337.4	11409.3	11335.2
52.5°	10492.8	10679.1	10710.8	10755.3	10721.4
55°	9817.5	10014.4	10063.1	10080.0	9813.3
57.5°	9119.0	9320.1	9366.7	8977.2	8119.9
60°	8399.3	8598.3	8642.7	7302.8	6693.2
62.5°	7650.0	7844.7	7893.4	6051.8	5857.1
65°	6862.5	7074.2	6574.7	5228.4	5097.2
67.5°	6053.9	6272.0	4972.3	4481.2	4402.9
70°	5203.0	5423.1	4093.8	3820.8	3801.7
72.5°	4385.9	4548.9	3359.3	2895.7	2438.5
75°	3486.3	3706.4	2701.0	1871.2	1792.9
77.5°	2703.1	2336.9	1629.9	1371.7	1081.7
80°	1926.3	1562.2	1066.8	569.4	537.7
82.5°	1221.4	1020.3	419.1	429.7	448.8
85°	637.1	419.1	328.1	351.4	353.5
87.5°	205.3	179.9	196.9	194.7	192.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)