

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

Luminaire Equipment: Sample No. Condition Description

Summary

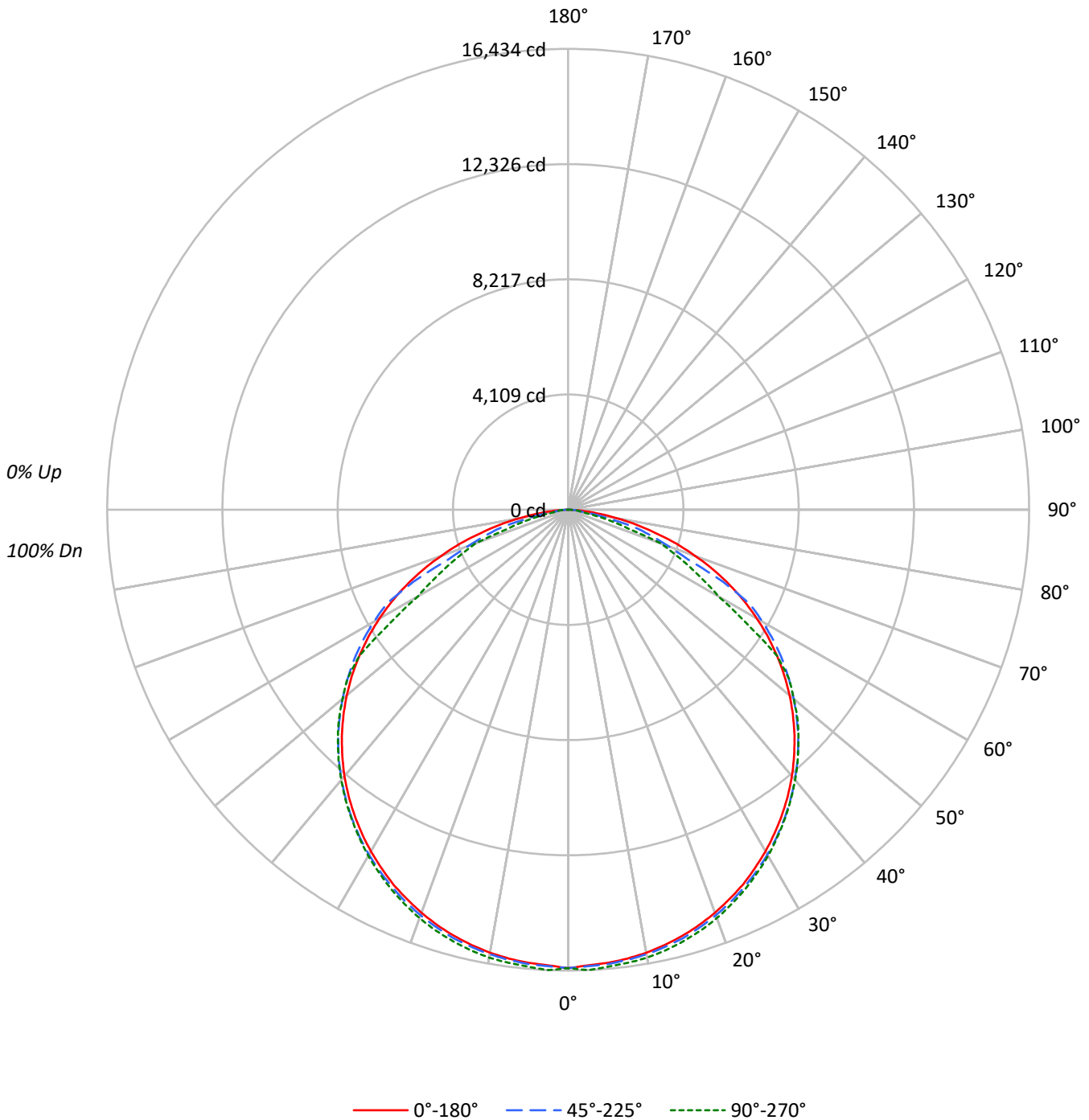
Lumens per Lamp: N/A
Luminaire Lumens: 47195.0 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	21996	21996	21996
5°	21905	21966	22091
10°	21918	21995	22161
15°	21912	22029	22182
20°	21901	22041	22195
25°	21893	22050	22172
30°	21854	22067	22150
35°	21827	22078	22107
40°	21787	22077	22111
45°	21705	22067	22093
50°	21576	21973	21969
55°	21324	21857	21315
60°	20928	21535	16677
65°	20230	19381	15026
70°	18952	14912	13848
75°	16781	13001	8630
80°	13820	7654	3857
85°	9107	4690	5053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1551.3	3.3
10°-20°	4475.7	9.5
20°-30°	6861.9	14.5
30°-40°	8415.3	17.8
40°-50°	8935.7	18.9
50°-60°	8161.7	17.3
60°-70°	5683.8	12.0
70°-80°	2650.9	5.6
80°-90°	458.6	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°	12888.9	27.3
0°-40°	21304.3	45.1
0°-60°	38401.7	81.4
0°-90°	47195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16348	16348	16348	16348	16348	
5°	16219	16332	16264	16342	16356	###
15°	15730	15840	15815	15911	15925	4442
25°	14747	14876	14852	14962	14935	6796
35°	13288	13441	13441	13532	13459	8315
45°	11407	11579	11597	11672	11611	8797
55°	9090	9272	9318	9333	9086	8118
65°	6354	6550	6088	4841	4720	6270
75°	3228	3432	2501	1733	1660	3451
85°	590	388	304	325	327	762
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16347.9	16347.9	16347.9	16347.9	16347.9
2.5°	16261.7	16365.6	16297.0	16371.4	16434.2
5°	16218.6	16332.2	16263.6	16342.0	16355.8
7.5°	16148.0	16255.8	16193.1	16279.3	16300.9
10°	16042.2	16148.0	16099.0	16200.9	16220.5
12.5°	15899.1	16006.9	15969.6	16081.4	16095.1
15°	15730.5	15840.3	15814.8	15910.9	15924.6
17.5°	15532.6	15646.3	15616.9	15718.8	15728.6
20°	15295.4	15418.9	15393.4	15513.0	15501.2
22.5°	15028.9	15160.2	15140.6	15260.1	15224.9
25°	14746.6	14876.0	14852.5	14962.2	14934.8
27.5°	14415.4	14558.5	14536.9	14642.8	14599.6
30°	14066.5	14211.6	14203.7	14299.8	14256.7
32.5°	13690.2	13845.1	13837.2	13931.3	13864.7
35°	13288.4	13441.3	13441.3	13531.5	13459.0
37.5°	12863.1	13018.0	13019.9	13106.2	13037.6
40°	12404.5	12559.3	12569.1	12651.5	12588.7
42.5°	11922.4	12090.9	12098.8	12173.2	12114.4
45°	11406.9	11579.4	11597.0	11671.5	11610.7
47.5°	10867.9	11042.3	11058.0	11138.4	11095.3
50°	10307.4	10475.9	10497.5	10564.1	10495.5
52.5°	9715.5	9887.9	9917.3	9958.5	9927.1
55°	9090.2	9272.5	9317.6	9333.3	9086.3
57.5°	8443.5	8629.6	8672.8	8312.1	7518.4
60°	7777.1	7961.3	8002.5	6761.8	6197.4
62.5°	7083.2	7263.6	7308.6	5603.5	5423.2
65°	6354.1	6550.1	6087.6	4841.1	4719.6
67.5°	5605.4	5807.3	4603.9	4149.2	4076.7
70°	4817.5	5021.4	3790.5	3537.7	3520.1
72.5°	4061.0	4211.9	3110.4	2681.2	2257.9
75°	3228.0	3431.9	2500.9	1732.6	1660.1
77.5°	2502.9	2163.8	1509.2	1270.0	1001.5
80°	1783.6	1446.4	987.8	527.2	497.8
82.5°	1130.9	944.7	388.1	397.9	415.5
85°	589.9	388.1	303.8	325.4	327.3
87.5°	190.1	166.6	182.3	180.3	178.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)