

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-AI-UNV-L835-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 (P23765)
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-AI-UNV-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

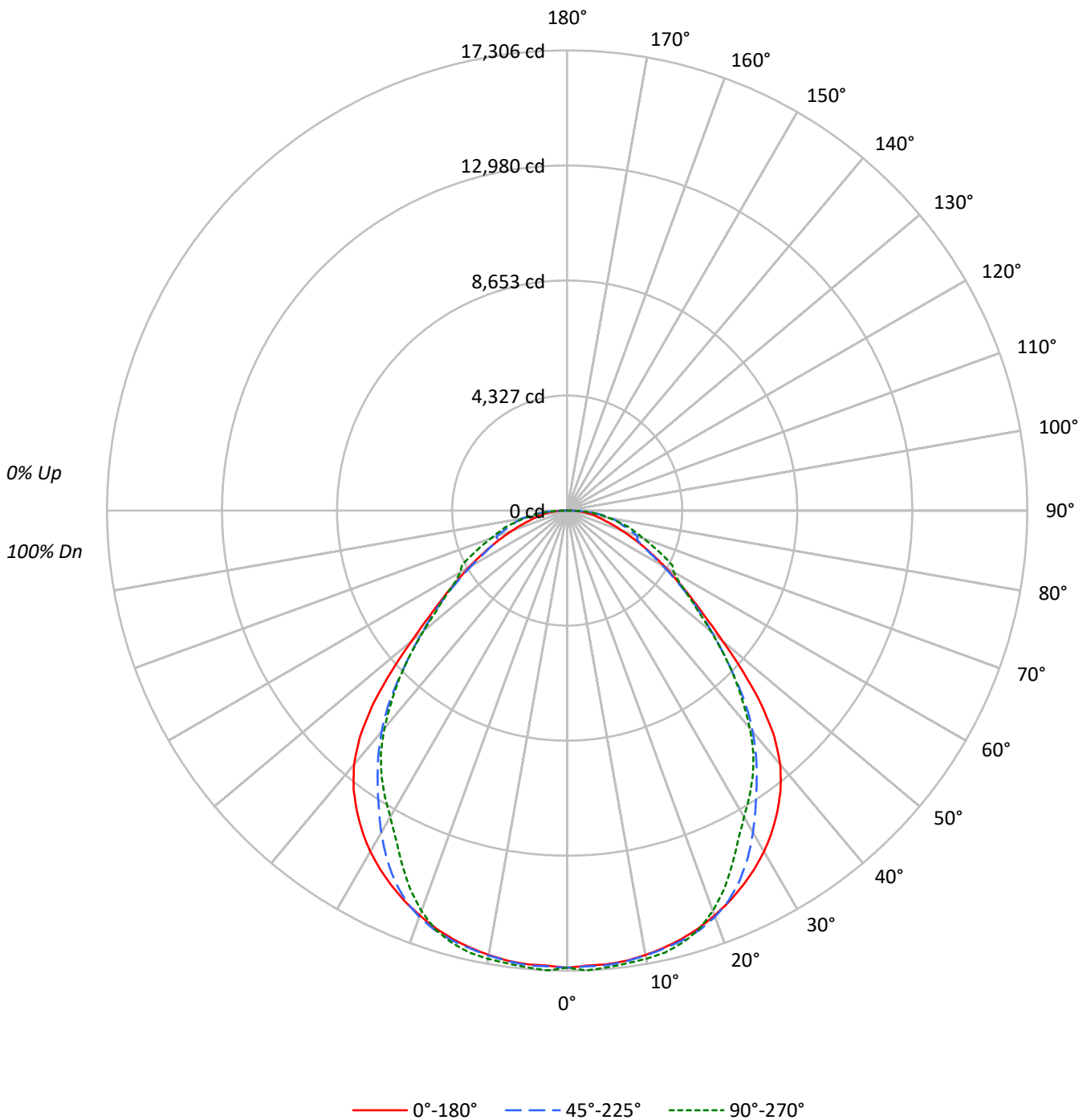
Lumens per Lamp: N/A
Luminaire Lumens: 39791.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	103	99	96		98	95	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68		78	72	67		75	70	66		73	68	65	63
4	85	74	66	59	83	73	65	59		70	64	58		68	62	57		66	61	57	55
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50	48
6	73	61	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41		53	46	41		52	45	40		50	44	40	38
8	64	51	43	37	62	50	42	37		49	42	37		48	41	36		46	41	36	34
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23130	23130	23130
5°	23129	23179	23292
10°	23187	23216	23386
15°	23222	23309	23423
20°	23199	23285	22940
25°	23140	22793	21802
30°	23004	21718	20660
35°	22657	20413	19987
40°	21899	19086	18771
45°	19684	17043	16980
50°	15965	14844	14742
55°	13257	13010	13005
60°	11477	11142	12457
65°	9947	9885	12556
70°	8577	11089	11969
75°	7691	11365	12478
80°	7994	13379	12519
85°	9076	15416	14305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1636.8	4.1
10°-20°	4727.2	11.9
20°-30°	7020.9	17.6
30°-40°	7970.7	20.0
40°-50°	7125.5	17.9
50°-60°	4926.6	12.4
60°-70°	3250.8	8.2
70°-80°	2193.2	5.5
80°-90°	939.3	2.4
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°	13384.9	33.6
0°-40°	21355.6	53.7
0°-60°	33407.7	84.0
0°-90°	39791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	39791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17191	17191	17191	17191	17191	
5°	17125	17230	17162	17232	17245	###
15°	16671	16751	16734	16827	16815	4706
25°	15587	15735	15353	14896	14686	7182
35°	13794	13504	12428	12246	12169	8602
45°	10344	9468	8957	9025	8924	7867
55°	5651	5159	5546	5468	5544	5133
65°	3124	2774	3105	3630	3944	3118
75°	1480	1861	2186	2336	2400	1616
85°	588	818	999	1004	927	613
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17190.9	17190.9	17190.9	17190.9	17190.9
2.5°	17132.5	17239.6	17159.8	17233.8	17305.8
5°	17124.8	17229.9	17161.7	17231.8	17245.4
7.5°	17076.1	17173.4	17093.6	17161.7	17177.3
10°	16971.0	17085.8	16992.4	17097.5	17117.0
12.5°	16834.7	16951.5	16869.7	17013.8	17021.6
15°	16671.2	16751.0	16733.5	16826.9	16815.2
17.5°	16464.8	16556.3	16542.7	16566.1	16511.6
20°	16202.0	16305.2	16262.4	16155.3	16021.0
22.5°	15919.8	16044.4	15875.0	15604.4	15415.6
25°	15586.9	15734.8	15353.3	14895.8	14685.6
27.5°	15219.0	15351.4	14716.7	14156.1	13938.1
30°	14806.3	14862.7	13979.0	13445.6	13297.6
32.5°	14329.4	14247.6	13190.6	12838.2	12752.6
35°	13794.0	13504.0	12427.5	12246.4	12168.6
37.5°	13190.6	12659.1	11674.1	11590.4	11508.6
40°	12468.3	11683.8	10866.2	10811.7	10687.2
42.5°	11535.9	10622.9	9968.8	9904.6	9793.6
45°	10344.5	9468.5	8956.6	9024.7	8923.5
47.5°	8974.1	8310.3	7985.2	8172.1	7985.2
50°	7627.0	7181.2	7091.7	7261.0	7043.0
52.5°	6523.3	6122.2	6307.2	6336.4	6205.9
55°	5651.2	5158.6	5546.0	5468.2	5544.1
57.5°	4892.0	4341.0	4818.0	4728.4	4989.3
60°	4265.1	3646.1	4140.5	4121.1	4629.2
62.5°	3650.0	3155.5	3552.7	3838.8	4463.7
65°	3124.4	2774.0	3104.9	3630.5	3943.9
67.5°	2620.2	2487.8	2840.2	3132.2	3474.8
70°	2180.3	2248.4	2818.8	2764.3	3042.6
72.5°	1810.4	2042.0	2487.8	2497.6	2694.2
75°	1479.5	1861.0	2186.1	2336.0	2400.2
77.5°	1230.3	1687.8	1973.9	2026.5	1964.2
80°	1031.7	1487.2	1726.7	1703.3	1615.7
82.5°	833.2	1127.1	1360.7	1382.1	1279.0
85°	587.9	817.6	998.6	1004.5	926.6
87.5°	315.4	504.2	605.4	622.9	576.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)