

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

Luminaire Equipment: Sample No. Condition Description

Summary

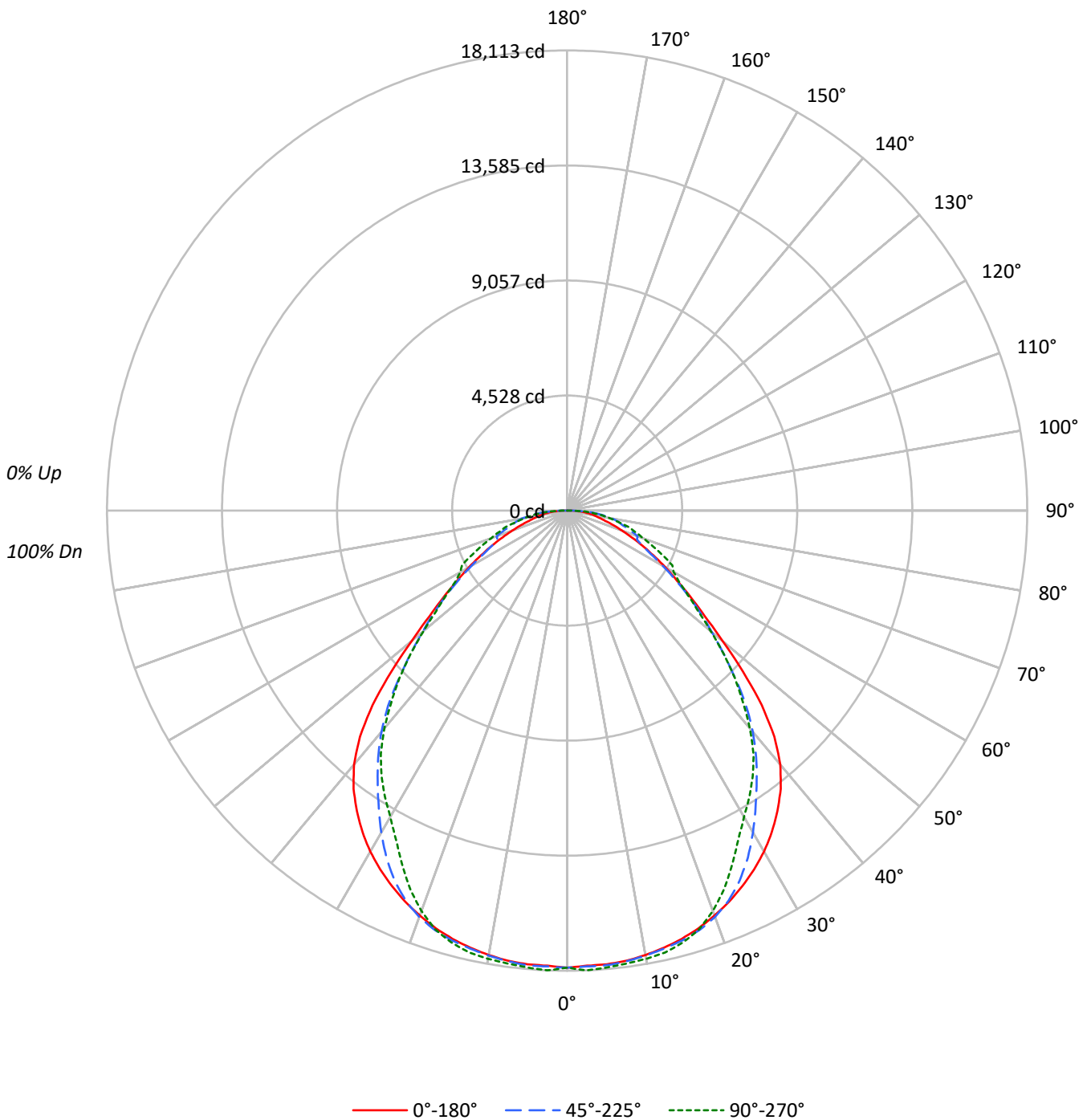
Lumens per Lamp: N/A
Luminaire Lumens: 41648.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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					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°	24210	24210	24210
5°	24209	24261	24379
10°	24269	24299	24477
15°	24306	24397	24516
20°	24281	24372	24010
25°	24220	23857	22820
30°	24077	22732	21624
35°	23715	21365	20920
40°	22922	19976	19647
45°	20602	17838	17772
50°	16710	15537	15431
55°	13875	13617	13612
60°	12013	11662	13038
65°	10411	10346	13142
70°	8977	11606	12528
75°	8050	11895	13060
80°	8367	14004	13103
85°	9499	16136	14973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1713.2	4.1
10°-20°	4947.8	11.9
20°-30°	7348.6	17.6
30°-40°	8342.7	20.0
40°-50°	7458.0	17.9
50°-60°	5156.5	12.4
60°-70°	3402.5	8.2
70°-80°	2295.5	5.5
80°-90°	983.2	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°	14009.6	33.6
0°-40°	22352.3	53.7
0°-60°	34966.8	84.0
0°-90°	41648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17993	17993	17993	17993	17993	
5°	17924	18034	17963	18036	18050	###
15°	17449	17533	17514	17612	17600	4925
25°	16314	16469	16070	15591	15371	7517
35°	14438	14134	13007	12818	12736	9003
45°	10827	9910	9375	9446	9340	8234
55°	5915	5399	5805	5723	5803	5373
65°	3270	2903	3250	3800	4128	3263
75°	1548	1948	2288	2445	2512	1691
85°	615	856	1045	1051	970	642
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17993.2	17993.2	17993.2	17993.2	17993.2
2.5°	17932.1	18044.2	17960.6	18038.0	18113.4
5°	17923.9	18034.0	17962.7	18036.0	18050.3
7.5°	17873.0	17974.9	17891.3	17962.7	17979.0
10°	17763.0	17883.2	17785.4	17895.4	17915.8
12.5°	17620.4	17742.6	17657.0	17807.8	17816.0
15°	17449.2	17532.7	17514.4	17612.2	17600.0
17.5°	17233.2	17329.0	17314.7	17339.2	17282.1
20°	16958.2	17066.2	17021.3	16909.3	16768.7
22.5°	16662.7	16793.1	16615.9	16332.7	16135.0
25°	16314.3	16469.2	16069.8	15591.0	15371.0
27.5°	15929.2	16067.8	15403.6	14816.8	14588.5
30°	15497.3	15556.4	14631.3	14073.1	13918.2
32.5°	14998.1	14912.5	13806.1	13437.4	13347.7
35°	14437.8	14134.2	13007.4	12818.0	12736.5
37.5°	13806.1	13249.9	12218.9	12131.3	12045.7
40°	13050.2	12229.1	11373.4	11316.3	11185.9
42.5°	12074.3	11118.7	10434.1	10366.8	10250.7
45°	10827.3	9910.4	9374.6	9445.9	9339.9
47.5°	9392.9	8698.1	8357.9	8553.5	8357.9
50°	7983.0	7516.4	7422.6	7599.9	7371.7
52.5°	6827.7	6408.0	6601.5	6632.1	6495.6
55°	5914.9	5399.4	5804.9	5723.4	5802.8
57.5°	5120.3	4543.6	5042.8	4949.1	5222.1
60°	4464.2	3816.3	4333.8	4313.4	4845.2
62.5°	3820.3	3302.8	3718.5	4018.0	4672.0
65°	3270.2	2903.4	3249.8	3800.0	4128.0
67.5°	2742.5	2603.9	2972.7	3278.3	3636.9
70°	2282.0	2353.3	2950.3	2893.3	3184.6
72.5°	1894.9	2137.3	2603.9	2614.1	2819.9
75°	1548.5	1947.9	2288.1	2445.0	2512.2
77.5°	1287.7	1766.5	2066.0	2121.0	2055.8
80°	1079.9	1556.7	1807.3	1782.8	1691.1
82.5°	872.1	1179.7	1424.2	1446.6	1338.6
85°	615.3	855.8	1045.2	1051.4	969.9
87.5°	330.1	527.7	633.7	652.0	603.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)