

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: P730551

Luminaire Tested: **HBLED-LD5-18HE-W-CL-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18010.0 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

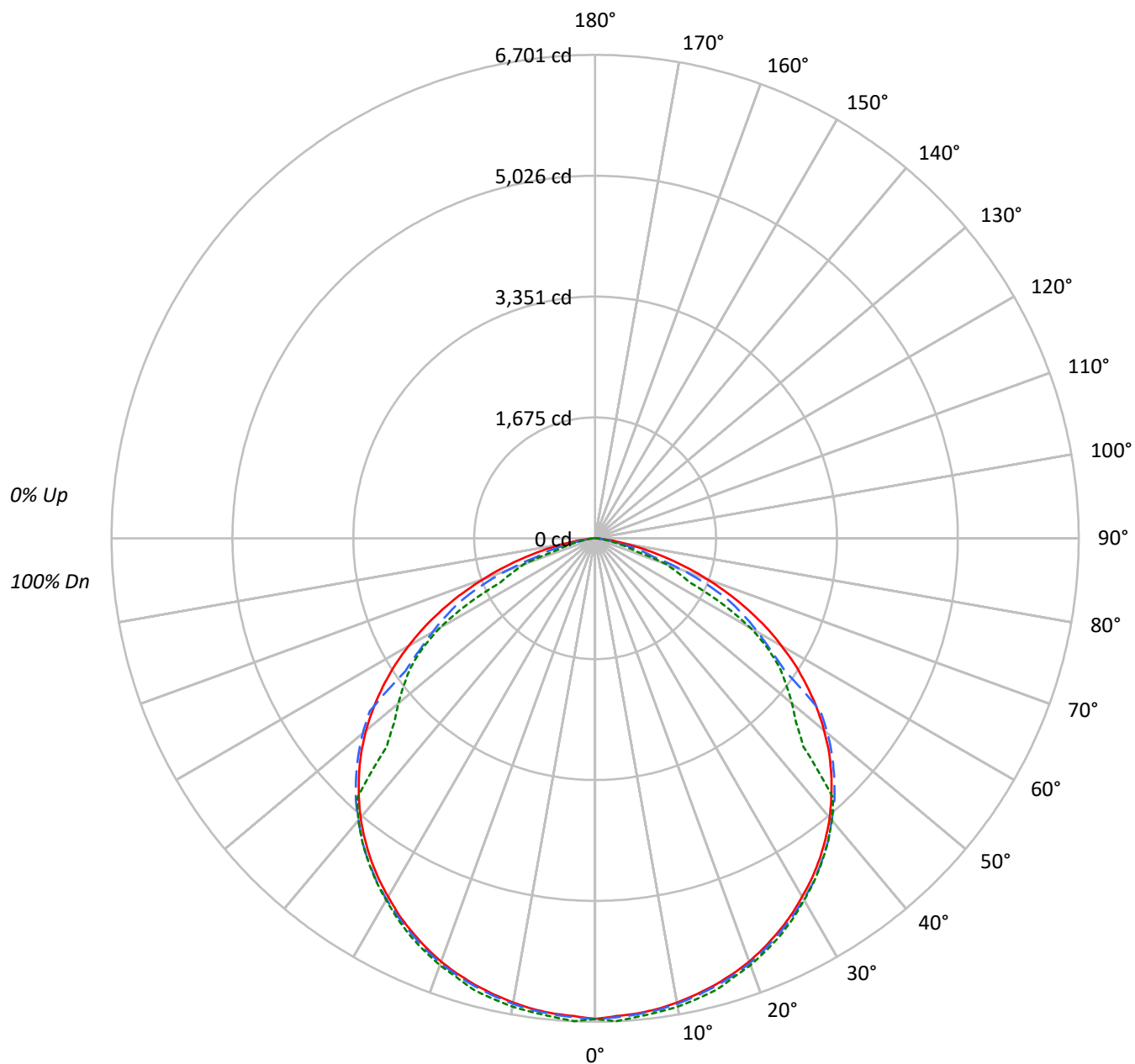
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10756	10756	10756
5°	10717	10741	10793
10°	10716	10747	10809
15°	10715	10748	10835
20°	10729	10769	10819
25°	10716	10757	10822
30°	10696	10775	10799
35°	10691	10789	10797
40°	10658	10752	10752
45°	10566	10694	9318
50°	10403	10560	8940
55°	10108	9039	8782
60°	9634	8403	8023
65°	8909	7800	5556
70°	7758	6069	4951
75°	6128	4074	2661
80°	3944	1945	1659
85°	1623	1187	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.9	3.5
10°-20°	1821.4	10.1
20°-30°	2792.6	15.5
30°-40°	3422.7	19.0
40°-50°	3518.8	19.5
50°-60°	3003.1	16.7
60°-70°	1985.4	11.0
70°-80°	735.6	4.1
80°-90°	98.4	0.5
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°	5245.9	29.1
0°-40°	8668.7	48.1
0°-60°	15190.6	84.3
0°-90°	18010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6662	6662	6662	6662	6662	
5°	6612	6659	6627	6653	6659	629
15°	6410	6449	6430	6478	6482	1811
25°	6015	6047	6038	6092	6075	2774
35°	5424	5461	5474	5508	5478	3393
45°	4628	4674	4684	4676	4081	3566
55°	3591	3657	3211	3118	3120	3204
65°	2332	2352	2042	1679	1454	2299
75°	982	861	653	439	427	1054
85°	88	62	64	70	70	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6661.8	6661.8	6661.8	6661.8	6661.8
2.5°	6629.4	6670.8	6646.4	6677.2	6700.7
5°	6612.4	6658.6	6626.9	6652.9	6659.4
7.5°	6583.2	6626.1	6596.9	6631.0	6626.1
10°	6536.1	6575.0	6554.8	6590.5	6592.8
12.5°	6476.1	6515.0	6496.3	6540.1	6539.3
15°	6410.4	6449.3	6429.8	6478.5	6481.8
17.5°	6333.3	6369.0	6354.4	6399.0	6381.1
20°	6244.1	6274.9	6267.6	6309.8	6296.8
22.5°	6134.6	6166.2	6159.0	6207.6	6188.1
25°	6015.4	6047.0	6038.1	6092.4	6074.6
27.5°	5886.4	5916.4	5915.5	5966.7	5939.1
30°	5737.1	5776.9	5779.4	5824.7	5792.3
32.5°	5589.5	5626.8	5637.4	5670.7	5643.1
35°	5424.1	5461.3	5473.5	5507.6	5477.6
37.5°	5245.6	5277.2	5299.1	5324.2	5300.7
40°	5056.6	5085.0	5101.2	5132.0	5101.2
42.5°	4845.7	4886.3	4909.0	4930.9	4880.6
45°	4627.5	4673.7	4683.5	4676.2	4080.8
47.5°	4396.4	4446.6	4452.3	3882.9	3773.4
50°	4141.6	4204.9	4204.1	3588.4	3559.3
52.5°	3876.4	3937.3	3934.8	3358.1	3338.6
55°	3590.9	3656.6	3211.2	3118.0	3119.6
57.5°	3299.7	3346.7	2881.2	2885.2	2831.6
60°	2983.4	3027.9	2602.1	2577.0	2484.5
62.5°	2666.2	2684.9	2332.0	2209.5	2033.5
65°	2332.0	2351.5	2041.7	1679.0	1454.3
67.5°	1988.9	2008.4	1694.4	1249.2	1232.1
70°	1643.3	1484.4	1285.7	1040.7	1048.8
72.5°	1302.7	1140.5	840.3	806.2	582.4
75°	982.3	860.6	653.0	438.8	426.6
77.5°	683.8	592.9	349.6	299.3	279.9
80°	424.2	297.7	209.2	185.7	178.4
82.5°	214.9	171.2	113.6	113.6	113.6
85°	87.6	62.5	64.1	69.7	70.5
87.5°	18.6	25.1	30.8	31.6	30.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)