

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: P730521

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CL-WG-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17710.0 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

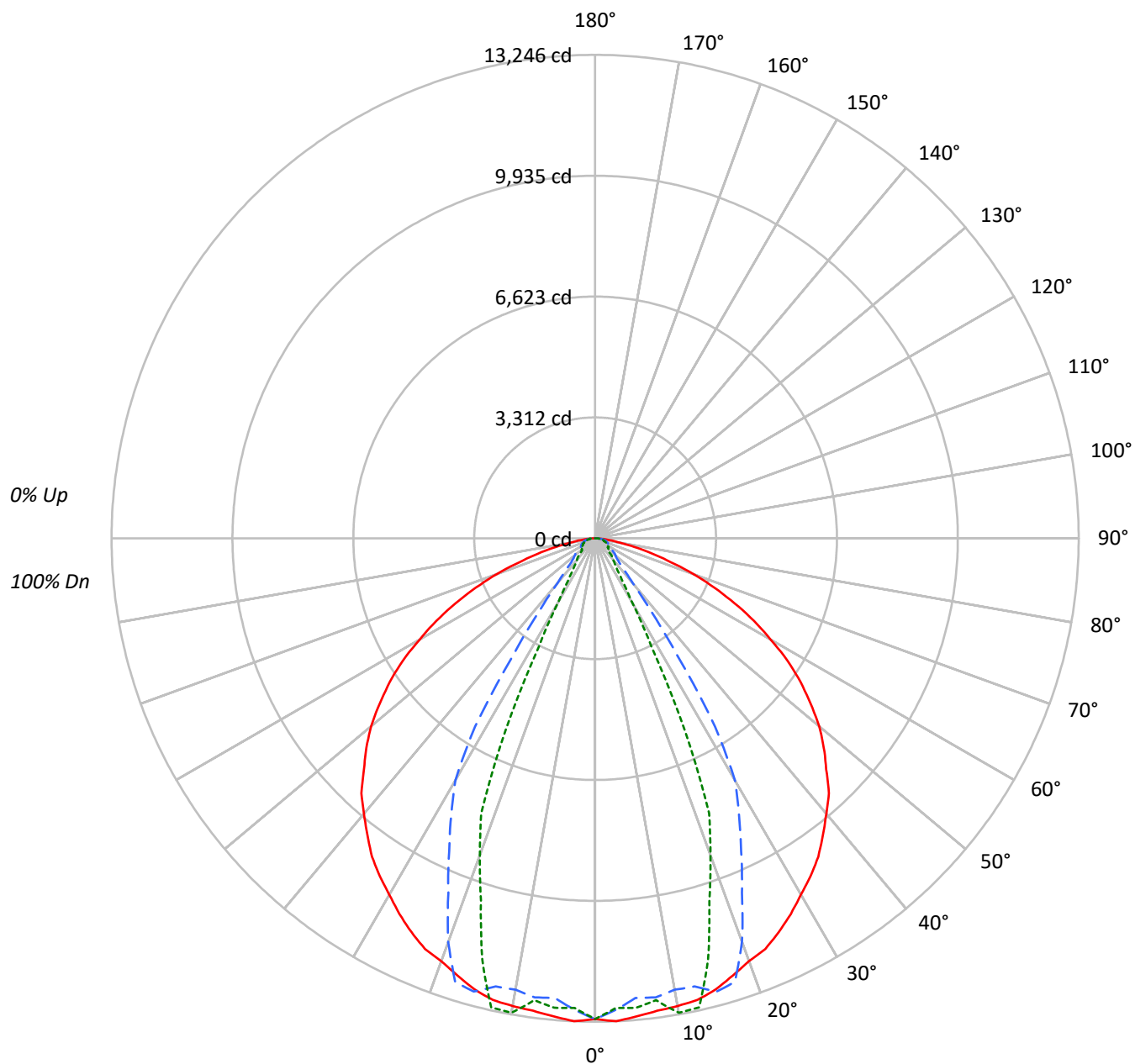
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	103	100		101	99	97			98	96	94			94
2	104	97	92	88	101	96	91	87		92	88	85			89	86	83			86
3	97	89	82	77	95	87	81	76		84	79	75			82	77	74			79
4	90	81	74	68	88	80	73	68		77	72	67			75	70	66			73
5	85	74	67	62	83	73	66	61		71	65	61			69	64	60			68
6	79	68	61	56	78	68	61	56		66	60	55			64	59	55			63
7	75	63	56	51	73	63	56	51		61	55	50			60	54	50			59
8	70	59	52	47	69	58	51	47		57	51	46			56	50	46			55
9	66	55	48	43	65	54	48	43		53	47	43			52	47	43			52
10	63	52	45	40	62	51	45	40		50	44	40			49	44	40			48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21270	21270	21270
5°	21305	20493	20925
10°	21336	20592	21649
15°	21384	21495	19978
20°	21181	20217	15857
25°	21212	16854	10358
30°	21021	14278	3721
35°	21000	7735	2093
40°	20762	3372	1639
45°	20441	2084	1285
50°	20122	1815	1213
55°	19331	1574	1187
60°	17936	1411	1276
65°	16122	1594	1394
70°	13521	1714	1437
75°	10108	1955	1556
80°	6349	2271	1774
85°	4227	2845	2599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1221.0	6.9
10°-20°	3447.9	19.5
20°-30°	4222.0	23.8
30°-40°	3315.6	18.7
40°-50°	2458.7	13.9
50°-60°	1496.8	8.5
60°-70°	896.6	5.1
70°-80°	491.9	2.8
80°-90°	159.6	0.9
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°	8890.9	50.2
0°-40°	12206.4	68.9
0°-60°	16161.9	91.3
0°-90°	17710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13174	13174	13174	13174	13174	
5°	13145	12787	12644	12784	12911	###
15°	12793	12442	12859	12340	11952	3602
25°	11907	11944	9461	7420	5814	5481
35°	10654	9692	3924	1313	1062	6648
45°	8952	6428	913	692	563	6922
55°	6867	1771	559	473	422	6111
65°	4220	522	417	392	365	4169
75°	1620	329	313	272	250	1754
85°	228	179	154	141	140	278
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13173.6	13173.6	13173.6	13173.6	13173.6
2.5°	13245.5	13067.0	12930.3	12854.0	12885.0
5°	13145.1	12787.3	12644.4	12783.8	12910.8
7.5°	13058.1	12526.4	12687.9	12700.4	12767.0
10°	13013.8	12501.5	12560.1	12836.2	13204.6
12.5°	12955.2	12559.2	12579.6	12956.1	13163.8
15°	12792.7	12442.0	12859.3	12339.9	11951.9
17.5°	12555.6	12168.6	12742.1	10931.8	10404.5
20°	12327.4	11871.1	11766.4	9737.7	9228.9
22.5°	12180.1	11825.9	10511.0	8676.7	8151.1
25°	11906.7	11943.9	9460.7	7420.4	5814.4
27.5°	11605.7	11666.1	8532.0	4948.8	3331.1
30°	11275.4	11344.7	7658.4	2924.5	1995.9
32.5°	10976.2	10585.6	6116.2	1824.5	1387.6
35°	10654.0	9691.5	3924.2	1313.1	1061.9
37.5°	10248.2	8752.2	2484.1	1038.7	891.4
40°	9850.5	7908.8	1599.9	886.9	777.8
42.5°	9478.4	7213.6	1163.9	775.1	702.3
45°	8952.0	6427.9	912.7	691.6	562.9
47.5°	8496.5	5506.3	798.1	585.1	485.7
50°	8010.8	4210.1	722.7	520.3	483.0
52.5°	7434.7	2754.0	667.6	498.1	451.0
55°	6867.4	1771.2	559.3	473.2	421.7
57.5°	6254.7	1123.1	493.7	459.0	440.3
60°	5554.3	757.3	436.8	435.0	395.1
62.5°	4906.1	622.4	421.7	417.3	373.8
65°	4219.9	522.0	417.3	392.4	364.9
67.5°	3534.4	447.5	377.4	358.6	334.7
70°	2864.1	409.3	363.1	355.1	304.5
72.5°	2175.1	337.3	322.3	301.0	253.1
75°	1620.3	329.4	313.4	272.5	249.5
77.5°	1096.5	303.7	285.0	244.2	225.5
80°	682.8	278.8	244.2	214.0	190.8
82.5°	405.7	232.6	200.7	176.7	161.6
85°	228.2	179.4	153.6	141.2	140.3
87.5°	48.8	64.8	51.5	48.8	34.6
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)