

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: P730523

Luminaire Tested: **HBLED-LD5-18HE-N-CL-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730523
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-L835
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: 16432.0 lumens
Efficiency: N/A
Efficacy: 149.1 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

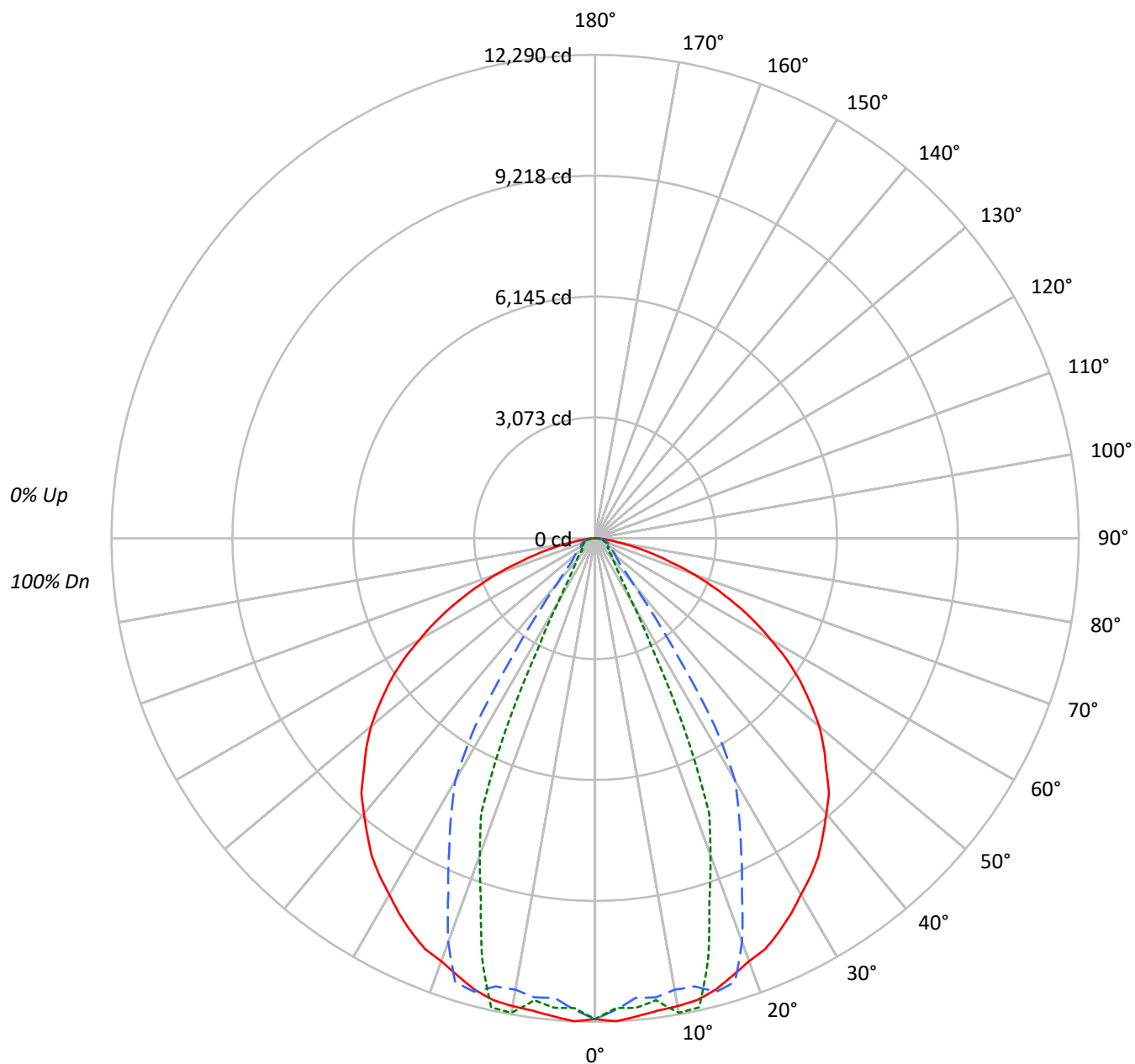
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	105	103	100		101	99	97		98	96	94		94	92	91
2	104	97	92	88		101	96	91	87		92	88	85		89	86	83		86	84	81
3	97	89	82	77		95	87	81	76		84	79	75		82	77	74		79	76	73
4	90	81	74	68		88	80	73	68		77	72	67		75	70	66		73	69	65
5	85	74	67	62		83	73	66	61		71	65	61		69	64	60		68	63	59
6	79	68	61	56		78	68	61	56		66	60	55		64	59	55		63	58	54
7	75	63	56	51		73	63	56	51		61	55	50		60	54	50		59	54	50
8	70	59	52	47		69	58	51	47		57	51	46		56	50	46		55	50	46
9	66	55	48	43		65	54	48	43		53	47	43		52	47	43		52	46	43
10	63	52	45	40		62	51	45	40		50	44	40		49	44	40		48	43	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19735	19735	19735
5°	19768	19015	19415
10°	19796	19106	20087
15°	19841	19944	18536
20°	19653	18758	14713
25°	19681	15638	9611
30°	19504	13248	3452
35°	19484	7177	1942
40°	19263	3129	1521
45°	18966	1934	1193
50°	18670	1684	1126
55°	17936	1461	1101
60°	16641	1309	1184
65°	14958	1479	1294
70°	12545	1590	1334
75°	9378	1814	1444
80°	5890	2106	1647
85°	3922	2640	2410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.9	6.9
10°-20°	3199.1	19.5
20°-30°	3917.3	23.8
30°-40°	3076.3	18.7
40°-50°	2281.3	13.9
50°-60°	1388.8	8.5
60°-70°	831.9	5.1
70°-80°	456.4	2.8
80°-90°	148.0	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°	8249.3	50.2
0°-40°	11325.6	68.9
0°-60°	14995.6	91.3
0°-90°	16432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12223	12223	12223	12223	12223	
5°	12197	11865	11732	11861	11979	###
15°	11870	11544	11931	11449	11089	3342
25°	11047	11082	8778	6885	5395	5086
35°	9885	8992	3641	1218	985	6168
45°	8306	5964	847	642	522	6423
55°	6372	1643	519	439	391	5670
65°	3915	484	387	364	339	3868
75°	1503	306	291	253	232	1628
85°	212	166	142	131	130	258
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12223.0	12223.0	12223.0	12223.0	12223.0
2.5°	12289.6	12124.1	11997.3	11926.4	11955.2
5°	12196.6	11864.6	11732.0	11861.3	11979.1
7.5°	12115.8	11622.4	11772.3	11783.9	11845.7
10°	12074.7	11599.3	11653.7	11909.9	12251.7
12.5°	12020.3	11652.9	11671.8	12021.1	12213.8
15°	11869.6	11544.2	11931.3	11449.4	11089.4
17.5°	11649.6	11290.4	11822.6	10142.9	9653.6
20°	11437.9	11014.5	10917.3	9035.0	8563.0
22.5°	11301.2	10972.5	9752.5	8050.6	7562.9
25°	11047.4	11082.0	8778.0	6885.0	5394.8
27.5°	10768.2	10824.2	7916.4	4591.7	3090.7
30°	10461.7	10526.0	7105.7	2713.4	1851.8
32.5°	10184.2	9821.7	5674.9	1692.8	1287.5
35°	9885.1	8992.1	3641.0	1218.4	985.2
37.5°	9508.7	8120.6	2304.9	963.8	827.1
40°	9139.6	7338.1	1484.4	822.9	721.6
42.5°	8794.5	6693.1	1080.0	719.2	651.6
45°	8306.0	5964.0	846.8	641.7	522.3
47.5°	7883.4	5109.0	740.6	542.9	450.6
50°	7432.8	3906.3	670.5	482.7	448.2
52.5°	6898.2	2555.3	619.4	462.1	418.4
55°	6371.8	1643.4	518.9	439.1	391.3
57.5°	5803.4	1042.1	458.0	425.9	408.6
60°	5153.4	702.7	405.3	403.6	366.6
62.5°	4552.1	577.5	391.3	387.2	346.8
65°	3915.3	484.4	387.2	364.1	338.6
67.5°	3279.4	415.2	350.1	332.8	310.5
70°	2657.5	379.8	336.9	329.5	282.5
72.5°	2018.2	313.0	299.0	279.3	234.8
75°	1503.3	305.6	290.8	252.9	231.5
77.5°	1017.4	281.7	264.4	226.5	209.3
80°	633.5	258.7	226.5	198.5	177.1
82.5°	376.5	215.8	186.2	163.9	149.9
85°	211.7	166.4	142.5	131.0	130.1
87.5°	45.3	60.1	47.8	45.3	32.1
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)