

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: P730596

Luminaire Tested: **HBLED-LD5-18SE-N-CL-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730596
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-LD5-18SE-N-CL-WG-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16616.0 lumens
Efficiency: N/A
Efficacy: 144.7 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

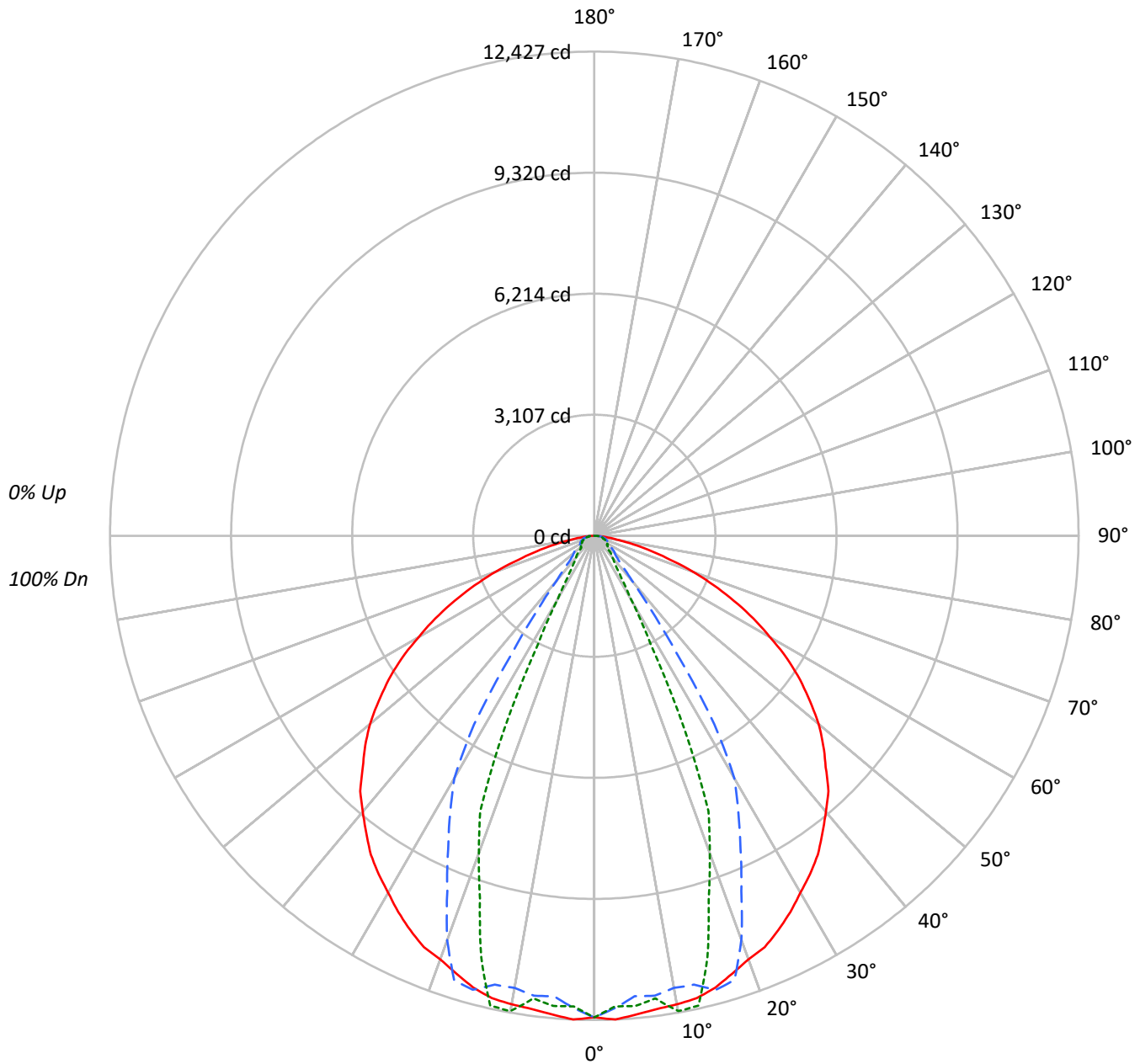
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19956	19956	19956
5°	19989	19227	19633
10°	20018	19320	20312
15°	20063	20167	18744
20°	19873	18968	14878
25°	19901	15813	9718
30°	19723	13396	3491
35°	19702	7257	1964
40°	19479	3164	1538
45°	19178	1955	1206
50°	18879	1703	1138
55°	18137	1477	1114
60°	16828	1324	1197
65°	15126	1496	1308
70°	12686	1608	1349
75°	9483	1834	1460
80°	5956	2130	1665
85°	3966	2669	2438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.6	6.9
10°-20°	3234.9	19.5
20°-30°	3961.2	23.8
30°-40°	3110.7	18.7
40°-50°	2306.8	13.9
50°-60°	1404.3	8.5
60°-70°	841.2	5.1
70°-80°	461.5	2.8
80°-90°	149.7	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°	8341.6	50.2
0°-40°	11452.4	68.9
0°-60°	15163.5	91.3
0°-90°	16616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12360	12360	12360	12360	12360	
5°	12333	11997	11863	11994	12113	###
15°	12002	11673	12065	11578	11214	3379
25°	11171	11206	8876	6962	5455	5142
35°	9996	9093	3682	1232	996	6237
45°	8399	6031	856	649	528	6495
55°	6443	1662	525	444	396	5734
65°	3959	490	392	368	342	3912
75°	1520	309	294	256	234	1646
85°	214	168	144	132	132	261
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12359.8	12359.8	12359.8	12359.8	12359.8
2.5°	12427.3	12259.8	12131.6	12059.9	12089.1
5°	12333.1	11997.4	11863.3	11994.1	12113.3
7.5°	12251.5	11752.6	11904.1	11915.9	11978.3
10°	12209.9	11729.2	11784.2	12043.2	12388.9
12.5°	12154.9	11783.4	11802.5	12155.7	12350.6
15°	12002.5	11673.4	12064.9	11577.7	11213.6
17.5°	11780.0	11416.9	11955.0	10256.5	9761.7
20°	11565.9	11137.8	11039.6	9136.1	8658.8
22.5°	11427.7	11095.4	9861.7	8140.7	7647.6
25°	11171.2	11206.1	8876.3	6962.0	5455.2
27.5°	10888.8	10945.4	8005.0	4643.1	3125.3
30°	10578.9	10643.9	7185.3	2743.8	1872.6
32.5°	10298.2	9931.7	5738.4	1711.8	1301.9
35°	9995.8	9092.8	3681.8	1232.0	996.3
37.5°	9615.2	8211.5	2330.7	974.6	836.3
40°	9242.0	7420.2	1501.0	832.1	729.7
42.5°	8892.9	6768.0	1092.0	727.2	658.9
45°	8399.0	6030.8	856.3	648.9	528.1
47.5°	7971.7	5166.2	748.8	548.9	455.7
50°	7516.0	3950.0	678.0	488.1	453.2
52.5°	6975.4	2583.9	626.4	467.3	423.1
55°	6443.1	1661.8	524.8	444.0	395.7
57.5°	5868.4	1053.7	463.2	430.6	413.1
60°	5211.2	710.5	409.9	408.1	370.7
62.5°	4603.0	583.9	395.7	391.5	350.7
65°	3959.2	489.8	391.5	368.2	342.3
67.5°	3316.1	419.8	354.0	336.5	314.0
70°	2687.2	384.0	340.7	333.2	285.7
72.5°	2040.8	316.5	302.4	282.4	237.4
75°	1520.2	309.0	294.0	255.7	234.1
77.5°	1028.7	284.9	267.4	229.1	211.6
80°	640.6	261.6	229.1	200.8	179.1
82.5°	380.7	218.2	188.3	165.8	151.6
85°	214.1	168.3	144.1	132.5	131.6
87.5°	45.8	60.8	48.3	45.8	32.5
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)