

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: P730524

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730524
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-L840
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: 16905.0 lumens
Efficiency: N/A
Efficacy: 153.4 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

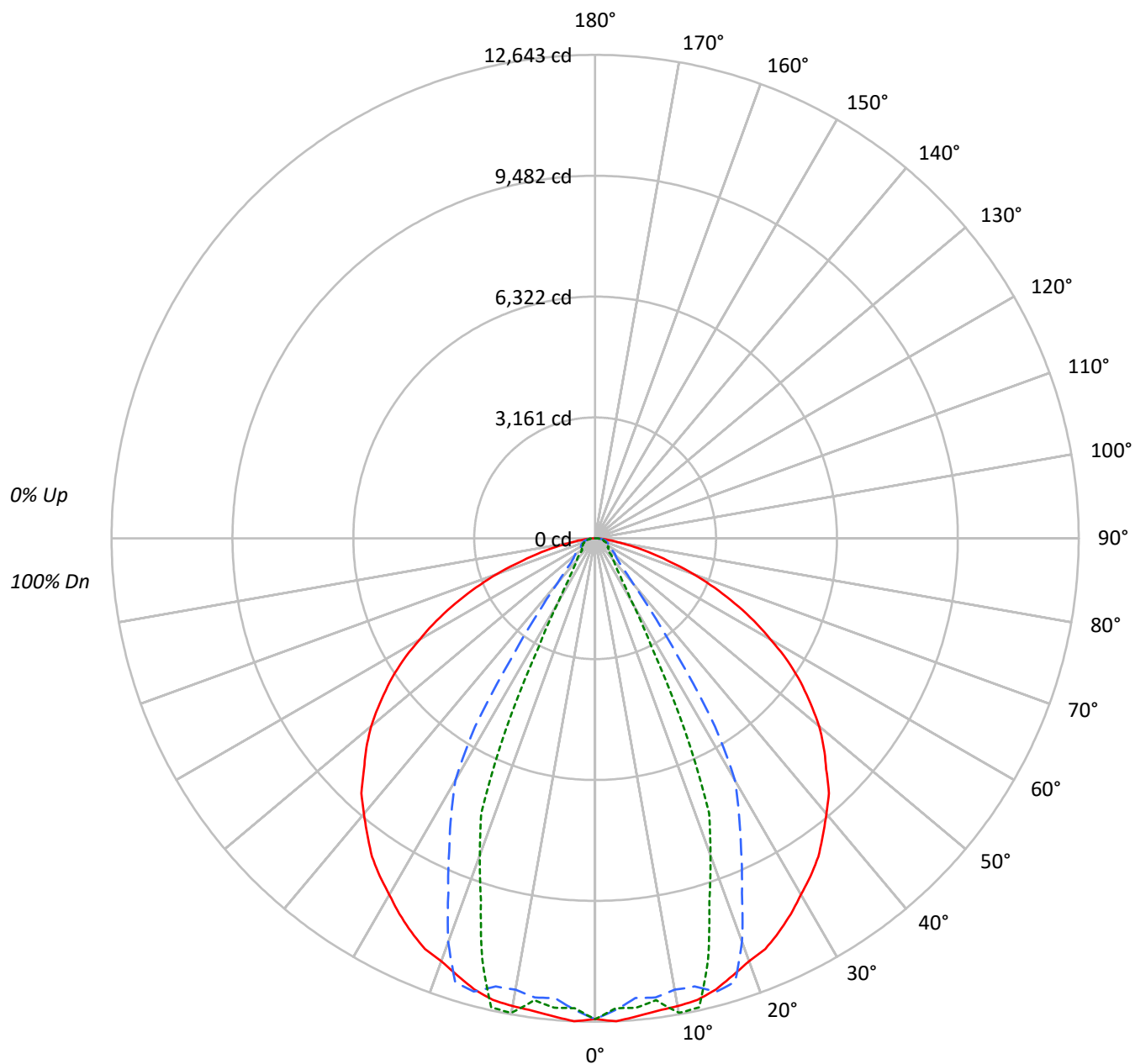
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20303	20303	20303
5°	20337	19562	19974
10°	20366	19656	20665
15°	20412	20518	19070
20°	20218	19298	15137
25°	20247	16088	9888
30°	20066	13629	3552
35°	20045	7383	1998
40°	19818	3219	1565
45°	19512	1989	1227
50°	19207	1733	1158
55°	18453	1503	1133
60°	17120	1347	1218
65°	15389	1522	1331
70°	12906	1636	1372
75°	9648	1866	1486
80°	6060	2167	1694
85°	4035	2716	2481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.5	6.9
10°-20°	3291.1	19.5
20°-30°	4030.1	23.8
30°-40°	3164.8	18.7
40°-50°	2346.9	13.9
50°-60°	1428.7	8.5
60°-70°	855.8	5.1
70°-80°	469.6	2.8
80°-90°	152.3	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°	8486.7	50.2
0°-40°	11651.6	68.9
0°-60°	15427.3	91.3
0°-90°	16905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12575	12575	12575	12575	12575	
5°	12548	12206	12070	12203	12324	###
15°	12211	11876	12275	11779	11409	3438
25°	11365	11401	9031	7083	5550	5232
35°	10170	9251	3746	1253	1014	6346
45°	8545	6136	871	660	537	6608
55°	6555	1691	534	452	402	5833
65°	4028	498	398	375	348	3980
75°	1547	314	299	260	238	1675
85°	218	171	147	135	134	266
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12574.8	12574.8	12574.8	12574.8	12574.8
2.5°	12643.4	12473.1	12342.6	12269.7	12299.3
5°	12547.6	12206.1	12069.7	12202.8	12323.9
7.5°	12464.6	11957.0	12111.2	12123.1	12186.6
10°	12422.2	11933.2	11989.1	12252.7	12604.4
12.5°	12366.3	11988.3	12007.8	12367.1	12565.4
15°	12211.3	11876.5	12274.8	11779.0	11408.6
17.5°	11984.9	11615.4	12162.9	10434.9	9931.5
20°	11767.1	11331.5	11231.6	9295.0	8809.5
22.5°	11626.5	11288.3	10033.3	8282.3	7780.6
25°	11365.4	11401.0	9030.7	7083.1	5550.1
27.5°	11078.1	11135.8	8144.2	4723.8	3179.7
30°	10762.9	10829.0	7310.3	2791.5	1905.1
32.5°	10477.3	10104.4	5838.2	1741.6	1324.6
35°	10169.7	9251.0	3745.8	1253.4	1013.6
37.5°	9782.4	8354.3	2371.2	991.5	850.9
40°	9402.7	7549.3	1527.2	846.6	742.4
42.5°	9047.6	6885.7	1111.0	739.9	670.4
45°	8545.1	6135.7	871.2	660.1	537.3
47.5°	8110.3	5256.0	761.9	558.5	463.6
50°	7646.7	4018.7	689.8	496.6	461.1
52.5°	7096.7	2628.8	637.3	475.4	430.5
55°	6555.2	1690.7	533.9	451.7	402.5
57.5°	5970.4	1072.0	471.2	438.1	420.3
60°	5301.8	722.9	417.0	415.2	377.1
62.5°	4683.1	594.1	402.5	398.3	356.8
65°	4028.0	498.3	398.3	374.6	348.3
67.5°	3373.8	427.2	360.2	342.3	319.5
70°	2734.0	390.7	346.6	339.0	290.6
72.5°	2076.3	322.0	307.6	287.3	241.6
75°	1546.6	314.4	299.1	260.2	238.2
77.5°	1046.6	289.8	272.1	233.1	215.3
80°	651.7	266.1	233.1	204.2	182.2
82.5°	387.3	222.0	191.5	168.7	154.2
85°	217.8	171.2	146.6	134.8	133.9
87.5°	46.6	61.9	49.2	46.6	33.0
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)