

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: P730668

Luminaire Tested: **HBLED-LD5-24HE-N-CL-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730668
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-LD5-24HE-N-CL-WG-UNV-L840
Description: 24000 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: 21797.0 lumens
Efficiency: N/A
Efficacy: 152.4 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

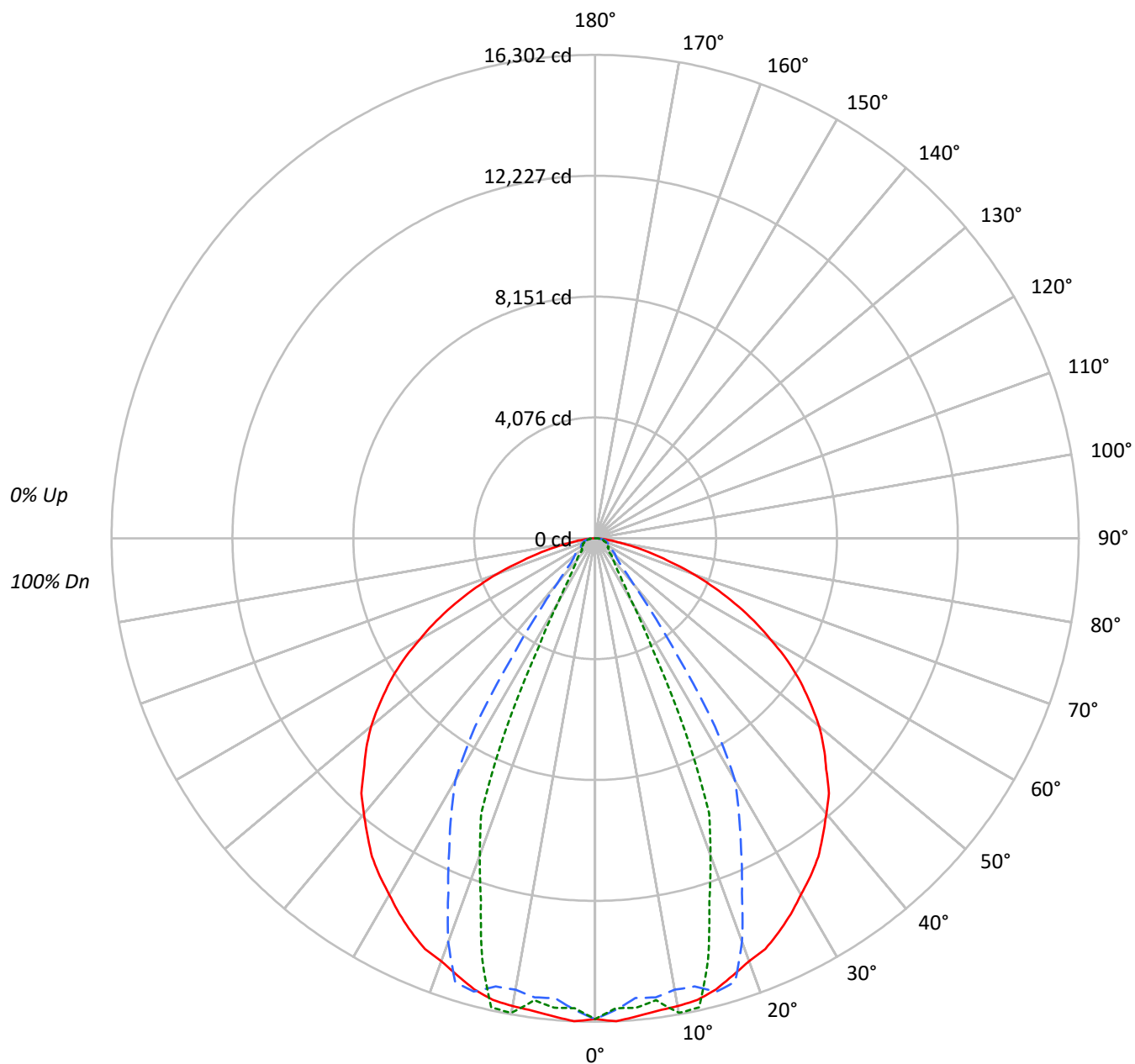
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730668

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730668

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L840

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26178	26178	26178
5°	26222	25223	25754
10°	26260	25344	26645
15°	26318	26455	24589
20°	26069	24883	19517
25°	26107	20744	12749
30°	25873	17573	4580
35°	25846	9520	2576
40°	25553	4150	2018
45°	25158	2565	1582
50°	24766	2234	1493
55°	23792	1938	1461
60°	22075	1736	1570
65°	19842	1962	1716
70°	16641	2110	1769
75°	12440	2406	1916
80°	7813	2794	2184
85°	5204	3501	3197



TEST NUMBER: P730668

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1502.8	6.9
10°-20°	4243.5	19.5
20°-30°	5196.3	23.8
30°-40°	4080.7	18.7
40°-50°	3026.1	13.9
50°-60°	1842.2	8.5
60°-70°	1103.5	5.1
70°-80°	605.5	2.8
80°-90°	196.4	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°	10942.7	50.2
0°-40°	15023.3	68.9
0°-60°	19891.7	91.3
0°-90°	21797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16214	16214	16214	16214	16214	
5°	16179	15738	15562	15734	15890	###
15°	15745	15313	15827	15188	14710	4433
25°	14654	14700	11644	9133	7156	6746
35°	13113	11928	4830	1616	1307	8182
45°	11018	7911	1123	851	693	8520
55°	8452	2180	688	582	519	7522
65°	5194	642	514	483	449	5131
75°	1994	405	386	335	307	2159
85°	281	221	189	174	173	343
90°	0	0	0	0	0	



TEST NUMBER: P730668

CATALOG NUMBER: HBLED-LD5-24HE-N-CL-WG-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16213.7	16213.7	16213.7	16213.7	16213.7
2.5°	16302.2	16082.6	15914.3	15820.3	15858.5
5°	16178.7	15738.3	15562.4	15734.0	15890.3
7.5°	16071.6	15417.1	15616.0	15631.3	15713.2
10°	16017.0	15386.5	15458.6	15798.4	16251.9
12.5°	15944.9	15457.6	15482.6	15946.0	16201.6
15°	15745.0	15313.3	15826.9	15187.7	14710.1
17.5°	15453.2	14976.7	15682.6	13454.6	12805.5
20°	15172.3	14610.7	14481.8	11984.9	11358.7
22.5°	14991.0	14555.0	12936.7	10679.1	10032.2
25°	14654.4	14700.3	11644.0	9132.9	7156.2
27.5°	14284.0	14358.3	10501.0	6090.8	4099.8
30°	13877.5	13962.8	9425.7	3599.4	2456.5
32.5°	13509.3	13028.4	7527.7	2245.5	1707.9
35°	13112.6	11928.0	4829.8	1616.1	1306.9
37.5°	12613.2	10771.9	3057.4	1278.5	1097.1
40°	12123.7	9733.9	1969.1	1091.6	957.3
42.5°	11665.8	8878.3	1432.6	954.0	864.4
45°	11017.9	7911.2	1123.3	851.2	692.8
47.5°	10457.3	6777.1	982.3	720.1	597.8
50°	9859.5	5181.7	889.5	640.4	594.5
52.5°	9150.4	3389.6	821.7	613.0	555.1
55°	8452.2	2180.0	688.4	582.4	519.0
57.5°	7698.2	1382.3	607.6	564.9	542.0
60°	6836.0	932.1	537.7	535.4	486.3
62.5°	6038.3	766.0	519.0	513.6	460.0
65°	5193.7	642.5	513.6	483.0	449.1
67.5°	4350.1	550.8	464.4	441.4	411.9
70°	3525.1	503.8	446.9	437.1	374.8
72.5°	2677.1	415.2	396.7	370.5	311.5
75°	1994.2	405.4	385.7	335.4	307.1
77.5°	1349.5	373.7	350.8	300.5	277.6
80°	840.3	343.1	300.5	263.3	234.9
82.5°	499.4	286.3	247.0	217.5	198.8
85°	280.9	220.8	189.0	173.8	172.6
87.5°	60.1	79.8	63.4	60.1	42.6
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)