

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: P730236

Luminaire Tested: **HBLED-LD5-12HE-N-CL-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730236
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-LD5-12HE-N-CL-WG-UNV-L840
Description: 12000 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: 11063.0 lumens
Efficiency: N/A
Efficacy: 152.2 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

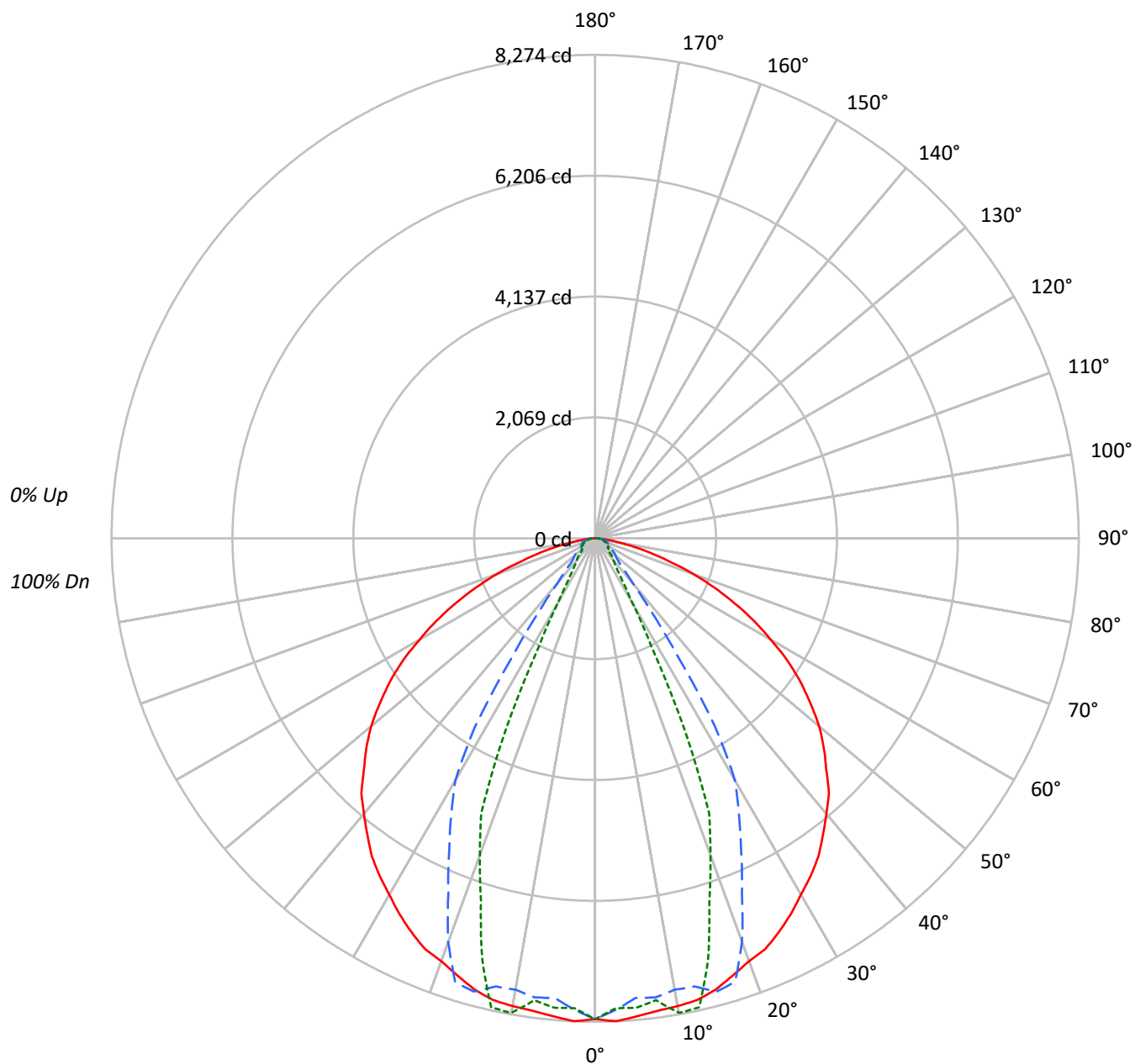
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730236

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-WG-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730236

CATALOG NUMBER: HBLED-LD5-12HE-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
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°	13287	13287	13287
5°	13309	12802	13072
10°	13328	12863	13524
15°	13358	13427	12480
20°	13231	12629	9906
25°	13250	10528	6471
30°	13132	8919	2324
35°	13118	4832	1307
40°	12969	2106	1024
45°	12769	1302	803
50°	12570	1134	758
55°	12076	984	741
60°	11204	881	797
65°	10071	996	871
70°	8446	1071	898
75°	6314	1221	973
80°	3966	1418	1108
85°	2640	1777	1623



TEST NUMBER: P730236

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-WG-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.7	6.9
10°-20°	2153.8	19.5
20°-30°	2637.4	23.8
30°-40°	2071.1	18.7
40°-50°	1535.9	13.9
50°-60°	935.0	8.5
60°-70°	560.1	5.1
70°-80°	307.3	2.8
80°-90°	99.7	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°	5553.9	50.2
0°-40°	7625.1	68.9
0°-60°	10096.0	91.3
0°-90°	11063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8229	8229	8229	8229	8229	
5°	8211	7988	7899	7986	8065	781
15°	7991	7772	8033	7708	7466	2250
25°	7438	7461	5910	4635	3632	3424
35°	6655	6054	2451	820	663	4153
45°	5592	4015	570	432	352	4324
55°	4290	1106	349	296	263	3818
65°	2636	326	261	245	228	2604
75°	1012	206	196	170	156	1096
85°	142	112	96	88	88	174
90°	0	0	0	0	0	



TEST NUMBER: P730236

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-WG-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8229.2	8229.2	8229.2	8229.2	8229.2
2.5°	8274.1	8162.7	8077.3	8029.6	8048.9
5°	8211.4	7987.9	7898.7	7985.8	8065.1
7.5°	8157.1	7824.9	7925.8	7933.6	7975.2
10°	8129.4	7809.4	7846.0	8018.4	8248.6
12.5°	8092.8	7845.4	7858.2	8093.3	8223.1
15°	7991.3	7772.2	8032.9	7708.4	7466.1
17.5°	7843.2	7601.4	7959.7	6828.8	6499.4
20°	7700.7	7415.6	7350.2	6082.9	5765.1
22.5°	7608.6	7387.3	6566.0	5420.1	5091.8
25°	7437.8	7461.1	5909.9	4635.4	3632.1
27.5°	7249.8	7287.5	5329.8	3091.4	2080.9
30°	7043.5	7086.8	4784.0	1826.8	1246.8
32.5°	6856.6	6612.5	3820.7	1139.7	866.8
35°	6655.3	6054.0	2451.3	820.3	663.3
37.5°	6401.8	5467.3	1551.8	648.9	556.8
40°	6153.4	4940.4	999.4	554.0	485.9
42.5°	5920.9	4506.2	727.1	484.2	438.7
45°	5592.1	4015.3	570.1	432.0	351.6
47.5°	5307.6	3439.7	498.6	365.5	303.4
50°	5004.2	2630.0	451.4	325.0	301.7
52.5°	4644.2	1720.4	417.0	311.1	281.7
55°	4289.9	1106.5	349.4	295.6	263.4
57.5°	3907.2	701.6	308.4	286.7	275.1
60°	3469.6	473.1	272.9	271.7	246.8
62.5°	3064.7	388.8	263.4	260.7	233.5
65°	2636.0	326.1	260.7	245.1	227.9
67.5°	2207.9	279.5	235.7	224.0	209.1
70°	1789.2	255.7	226.8	221.9	190.2
72.5°	1358.8	210.7	201.3	188.0	158.1
75°	1012.1	205.7	195.8	170.2	155.9
77.5°	684.9	189.7	178.0	152.5	140.9
80°	426.5	174.1	152.5	133.7	119.2
82.5°	253.4	145.3	125.3	110.4	100.9
85°	142.5	112.0	95.9	88.2	87.6
87.5°	30.5	40.5	32.2	30.5	21.6
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)