

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: P730230

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
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-UNV-L840
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11250.0 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

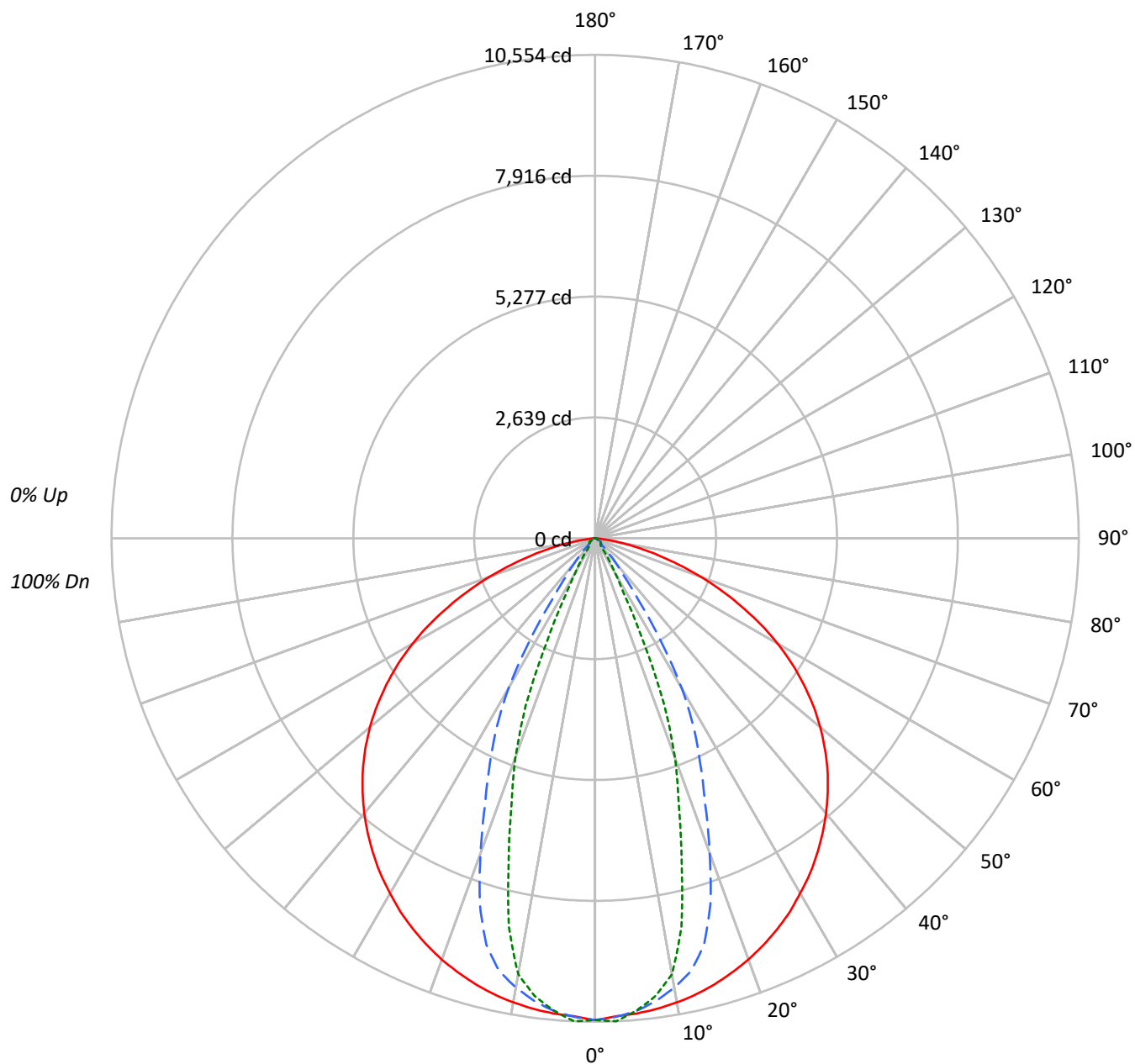
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730230

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

Luminous Intensity Polar Plot





TEST NUMBER: P730230

CATALOG NUMBER: HBLED-LD5-12HE-N-CL-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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	102	97	92	89	94	90	87		91	87	85		88
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61
8	72	61	55	50	71	61	54	50	60	54	49		59	53	49		58
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16984	16984	16984
5°	16880	16792	16779
10°	16868	16327	15845
15°	16849	15353	12184
20°	16816	12564	8739
25°	16763	9680	4441
30°	16684	7065	1616
35°	16624	3245	562
40°	16522	1473	388
45°	16375	549	393
50°	16114	399	414
55°	15637	420	315
60°	14860	449	278
65°	13476	342	226
70°	11554	246	208
75°	8832	218	198
80°	5526	205	216
85°	1745	239	289



TEST NUMBER: P730230

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.3	8.7
10°-20°	2467.0	21.9
20°-30°	2686.6	23.9
30°-40°	2009.8	17.9
40°-50°	1445.1	12.8
50°-60°	887.5	7.9
60°-70°	510.7	4.5
70°-80°	227.9	2.0
80°-90°	36.2	0.3
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°	6132.9	54.5
0°-40°	8142.7	72.4
0°-60°	10475.2	93.1
0°-90°	11250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10519	10519	10519	10519	10519	
5°	10415	10464	10360	10370	10353	990
15°	10080	9887	9185	7888	7289	2845
25°	9410	8735	5434	3486	2493	4338
35°	8434	6049	1646	484	285	5276
45°	7172	3399	241	178	172	5525
55°	5555	706	149	144	112	4953
65°	3527	78	89	74	59	3492
75°	1416	47	35	36	32	1536
85°	94	9	13	17	16	188
90°	0	0	0	0	0	



TEST NUMBER: P730230

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10519.0	10519.0	10519.0	10519.0	10519.0
2.5°	10445.8	10514.2	10456.6	10508.3	10554.0
5°	10414.6	10463.6	10360.3	10369.9	10352.7
7.5°	10360.8	10372.6	10185.9	10113.7	10078.7
10°	10288.6	10256.9	9958.7	9787.0	9664.8
12.5°	10197.7	10092.7	9676.1	9063.0	8697.5
15°	10079.8	9886.6	9185.2	7888.5	7288.8
17.5°	9939.3	9671.2	8372.4	6574.5	6055.6
20°	9787.0	9433.3	7312.5	5590.0	5086.2
22.5°	9607.2	9129.2	6267.2	4649.1	3957.4
25°	9409.7	8734.7	5433.9	3486.4	2492.8
27.5°	9196.5	8214.1	4662.6	2138.0	1347.8
30°	8948.9	7580.6	3789.5	1199.8	866.6
32.5°	8707.2	6842.1	2707.0	799.3	553.9
35°	8434.3	6049.2	1646.1	483.9	285.3
37.5°	8145.2	5328.4	1030.3	263.2	197.0
40°	7839.0	4644.8	698.7	186.8	184.1
42.5°	7511.7	4026.3	437.6	177.6	183.5
45°	7171.5	3398.7	240.6	178.2	172.3
47.5°	6802.2	2717.3	168.0	168.5	168.0
50°	6415.2	1949.1	158.8	166.3	164.7
52.5°	5998.0	1210.1	159.3	162.6	145.9
55°	5555.0	706.2	149.1	144.3	112.0
57.5°	5089.4	440.3	145.9	119.0	100.6
60°	4601.7	232.6	138.9	107.1	86.1
62.5°	4082.3	114.7	111.4	91.5	70.5
65°	3527.3	77.5	89.4	74.3	59.2
67.5°	2991.2	70.0	67.3	60.8	51.7
70°	2447.6	64.0	52.2	53.3	44.1
72.5°	1914.1	58.1	42.0	45.8	37.1
75°	1415.7	46.8	35.0	36.0	31.8
77.5°	985.0	36.6	27.5	30.7	29.6
80°	594.3	23.2	22.1	25.3	23.2
82.5°	288.0	15.1	17.2	19.9	18.3
85°	94.2	9.1	12.9	16.7	15.6
87.5°	11.8	5.4	10.8	14.5	13.5
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)