

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: P730248

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-UNV-L840
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12011.0 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

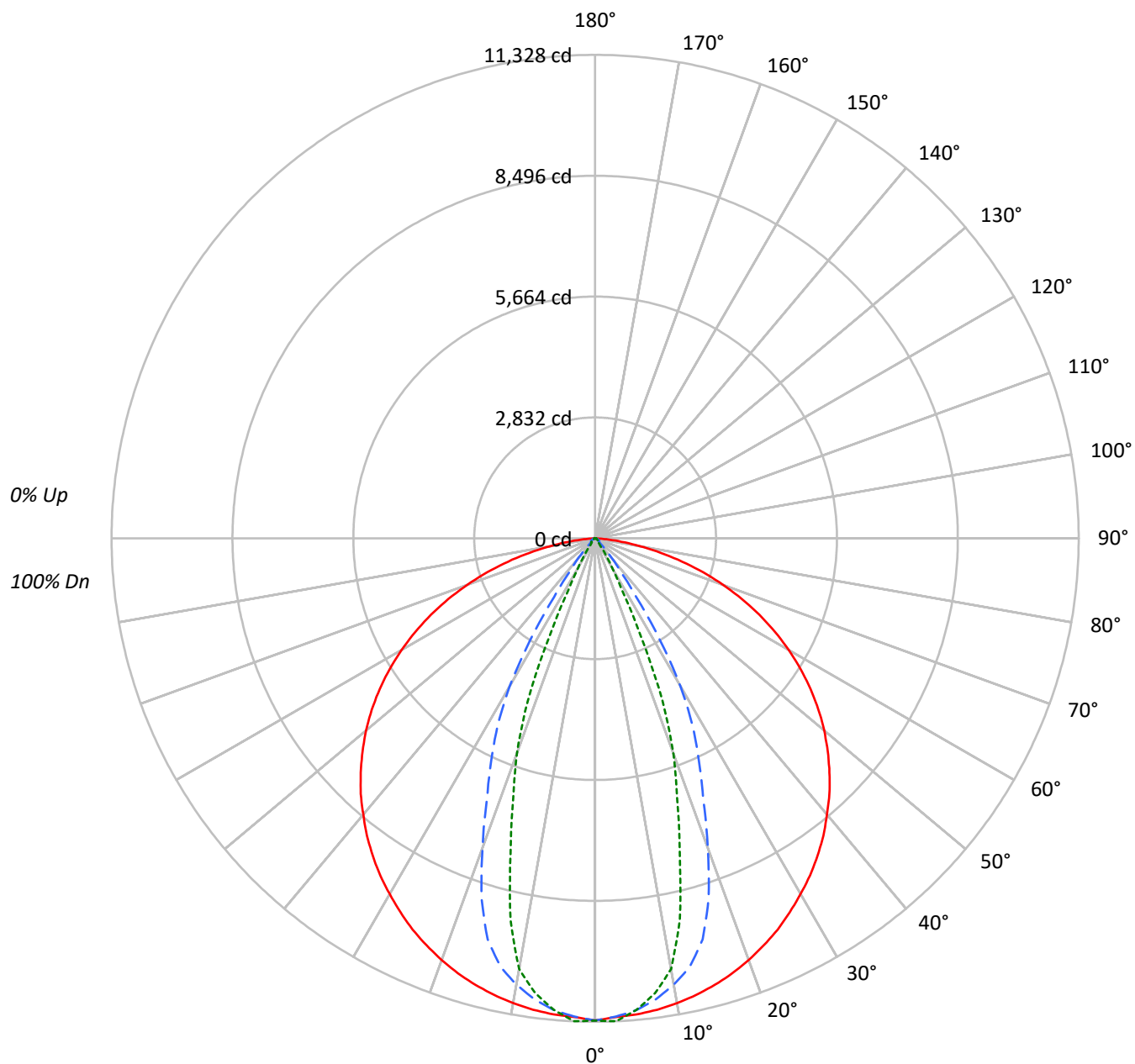
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90						
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81						
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73						
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66						
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60						
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55						
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51						
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47						
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44						
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18246	18246	18246
5°	18148	17988	17980
10°	18137	17411	16801
15°	18111	16266	12786
20°	18069	13260	9204
25°	18023	10253	4534
30°	17943	7452	1470
35°	17901	3306	378
40°	17807	1343	255
45°	17727	377	271
50°	17589	267	301
55°	17336	318	129
60°	16908	354	78
65°	16212	226	92
70°	15062	201	114
75°	13176	151	157
80°	9851	185	225
85°	4880	239	298



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1048.7	8.7
10°-20°	2622.3	21.8
20°-30°	2840.3	23.6
30°-40°	2103.4	17.5
40°-50°	1515.0	12.6
50°-60°	938.1	7.8
60°-70°	576.9	4.8
70°-80°	304.1	2.5
80°-90°	62.2	0.5
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°	6511.3	54.2
0°-40°	8614.7	71.7
0°-60°	11067.7	92.1
0°-90°	12011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11300	11300	11300	11300	11300	
5°	11197	11239	11098	11106	11094	###
15°	10835	10583	9731	8276	7649	3059
25°	10117	9267	5755	3621	2545	4661
35°	9082	6403	1677	395	192	5682
45°	7764	3607	165	119	119	5987
55°	6158	743	113	102	46	5498
65°	4244	78	59	38	24	4187
75°	2112	18	24	32	25	2231
85°	263	7	13	19	16	398
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11300.5	11300.5	11300.5	11300.5	11300.5
2.5°	11227.9	11299.5	11215.0	11277.9	11327.9
5°	11197.3	11238.7	11098.4	11106.4	11093.5
7.5°	11143.5	11133.8	10897.9	10794.6	10749.5
10°	11062.4	10998.4	10619.9	10404.4	10247.4
12.5°	10957.5	10814.5	10273.2	9587.8	9162.0
15°	10834.9	10583.4	9731.3	8275.6	7649.2
17.5°	10688.7	10332.3	8845.4	6935.9	6376.8
20°	10516.2	10052.2	7717.5	5901.0	5356.5
22.5°	10323.7	9711.4	6622.0	4904.3	4127.5
25°	10116.7	9266.8	5755.3	3620.6	2544.9
27.5°	9877.5	8695.4	4942.5	2132.6	1298.8
30°	9624.3	8007.3	3996.9	1147.2	788.6
32.5°	9369.0	7227.2	2828.2	716.6	447.3
35°	9081.9	6402.6	1677.2	394.6	191.9
37.5°	8782.4	5646.8	991.3	179.6	123.1
40°	8448.6	4956.0	637.0	119.3	120.9
42.5°	8126.1	4312.0	358.6	117.7	119.9
45°	7763.7	3607.1	165.0	119.3	118.8
47.5°	7389.0	2876.6	107.0	120.4	120.4
50°	7002.6	2056.8	106.4	123.1	119.9
52.5°	6594.5	1283.2	110.7	122.6	98.4
55°	6158.5	742.9	112.9	102.1	45.7
57.5°	5707.0	438.1	114.0	58.6	25.8
60°	5236.0	242.4	109.7	43.5	24.2
62.5°	4750.6	115.6	86.5	40.9	23.6
65°	4243.6	78.5	59.1	37.6	24.2
67.5°	3717.4	60.7	46.8	35.5	24.7
70°	3190.5	45.1	42.5	35.5	24.2
72.5°	2655.1	30.6	35.5	36.0	24.2
75°	2112.1	18.3	24.2	31.7	25.2
77.5°	1574.0	11.3	18.8	32.8	30.6
80°	1059.5	9.7	19.9	30.6	24.2
82.5°	622.0	8.6	19.4	23.6	19.4
85°	263.4	7.0	12.9	19.4	16.1
87.5°	49.5	5.9	10.2	15.6	14.0
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)