

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: P730542

Luminaire Tested: **HBLED-LD5-18HE-W-A-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-A-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16753.0 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

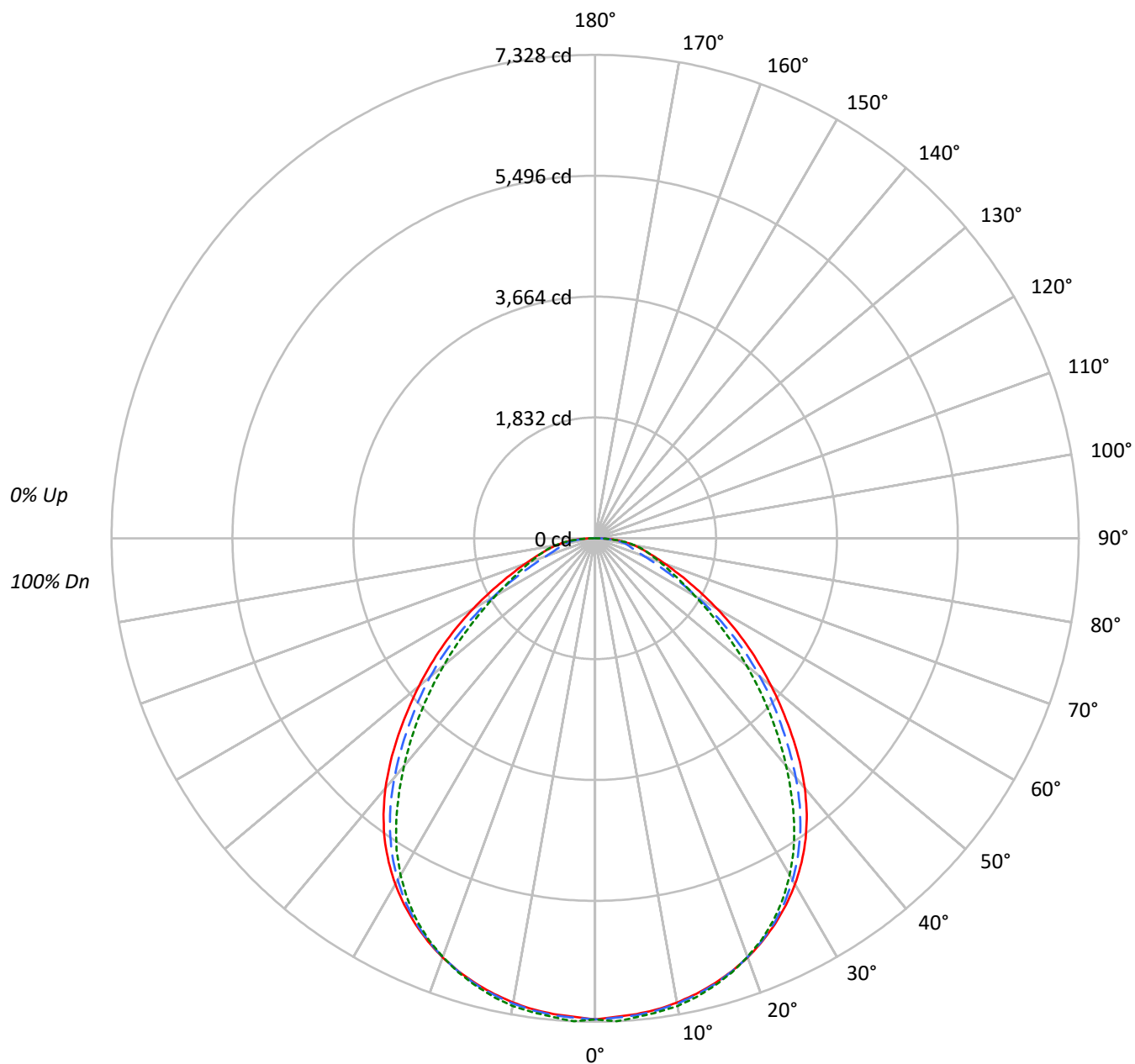
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11775	11775	11775
5°	11733	11760	11808
10°	11716	11744	11803
15°	11678	11701	11728
20°	11616	11608	11599
25°	11490	11451	11386
30°	11292	11155	10993
35°	10964	10688	10359
40°	10419	9971	9493
45°	9625	9088	8537
50°	8749	8183	7510
55°	7867	7085	6492
60°	6884	5790	5633
65°	5936	4553	5084
70°	5292	3716	4900
75°	5069	3628	5120
80°	5483	4290	5704
85°	6156	5165	6217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.2	4.1
10°-20°	1978.1	11.8
20°-30°	2959.1	17.7
30°-40°	3376.1	20.2
40°-50°	3073.2	18.3
50°-60°	2256.6	13.5
60°-70°	1332.4	8.0
70°-80°	763.6	4.6
80°-90°	322.9	1.9
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°	5628.4	33.6
0°-40°	9004.4	53.7
0°-60°	14334.2	85.6
0°-90°	16753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7293	7293	7293	7293	7293	
5°	7239	7285	7256	7285	7285	688
15°	6986	7025	7000	7025	7016	1971
25°	6450	6473	6428	6425	6391	2969
35°	5562	5535	5423	5330	5256	3466
45°	4215	4190	3980	3802	3739	3248
55°	2795	2666	2517	2334	2306	2499
65°	1554	1356	1192	1275	1331	1563
75°	813	697	582	758	821	876
85°	332	307	279	329	336	348
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7292.8	7292.8	7292.8	7292.8	7292.8
2.5°	7259.1	7301.1	7274.7	7303.5	7328.2
5°	7239.4	7284.7	7255.9	7284.7	7285.4
7.5°	7203.2	7245.1	7217.2	7248.5	7245.1
10°	7146.4	7188.4	7162.9	7196.7	7199.1
12.5°	7074.1	7114.4	7088.1	7126.7	7120.2
15°	6986.1	7024.7	7000.0	7024.7	7016.5
17.5°	6882.4	6917.8	6885.8	6912.9	6898.9
20°	6760.7	6790.3	6755.8	6781.3	6750.9
22.5°	6615.2	6641.5	6605.3	6619.2	6588.0
25°	6449.8	6472.8	6427.6	6425.1	6391.4
27.5°	6265.6	6278.0	6220.3	6200.6	6161.9
30°	6056.7	6060.0	5983.5	5946.5	5896.3
32.5°	5822.2	5814.1	5716.2	5661.1	5599.4
35°	5562.4	5535.2	5422.6	5329.6	5255.6
37.5°	5268.8	5226.0	5091.1	4953.8	4883.0
40°	4943.1	4892.9	4730.9	4560.6	4503.9
42.5°	4588.6	4545.8	4355.0	4177.3	4121.4
45°	4215.2	4190.5	3979.9	3801.5	3738.9
47.5°	3841.8	3823.7	3618.1	3436.3	3360.6
50°	3483.2	3443.7	3257.8	3058.8	2989.7
52.5°	3135.2	3054.6	2891.0	2687.0	2636.1
55°	2794.8	2665.7	2516.8	2334.2	2306.2
57.5°	2457.5	2290.6	2145.8	2009.3	2008.5
60°	2131.9	1941.0	1793.0	1721.4	1744.5
62.5°	1826.7	1630.9	1470.6	1475.5	1517.5
65°	1553.7	1356.2	1191.7	1274.8	1330.8
67.5°	1319.3	1130.9	963.9	1118.6	1172.0
70°	1121.0	950.8	787.1	980.4	1038.0
72.5°	954.1	810.9	663.8	865.2	923.6
75°	812.6	696.6	581.5	758.3	820.8
77.5°	697.5	594.6	521.5	656.3	721.3
80°	589.7	499.3	461.4	557.7	613.5
82.5°	467.1	404.7	382.5	453.2	482.0
85°	332.3	306.8	278.8	329.0	335.6
87.5°	182.6	189.2	156.2	189.2	190.0
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)