

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: P730581

Luminaire Tested: **HBLED-LD5-18HE-W-WG-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18909.0 lumens
Efficiency: N/A
Efficacy: 171.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

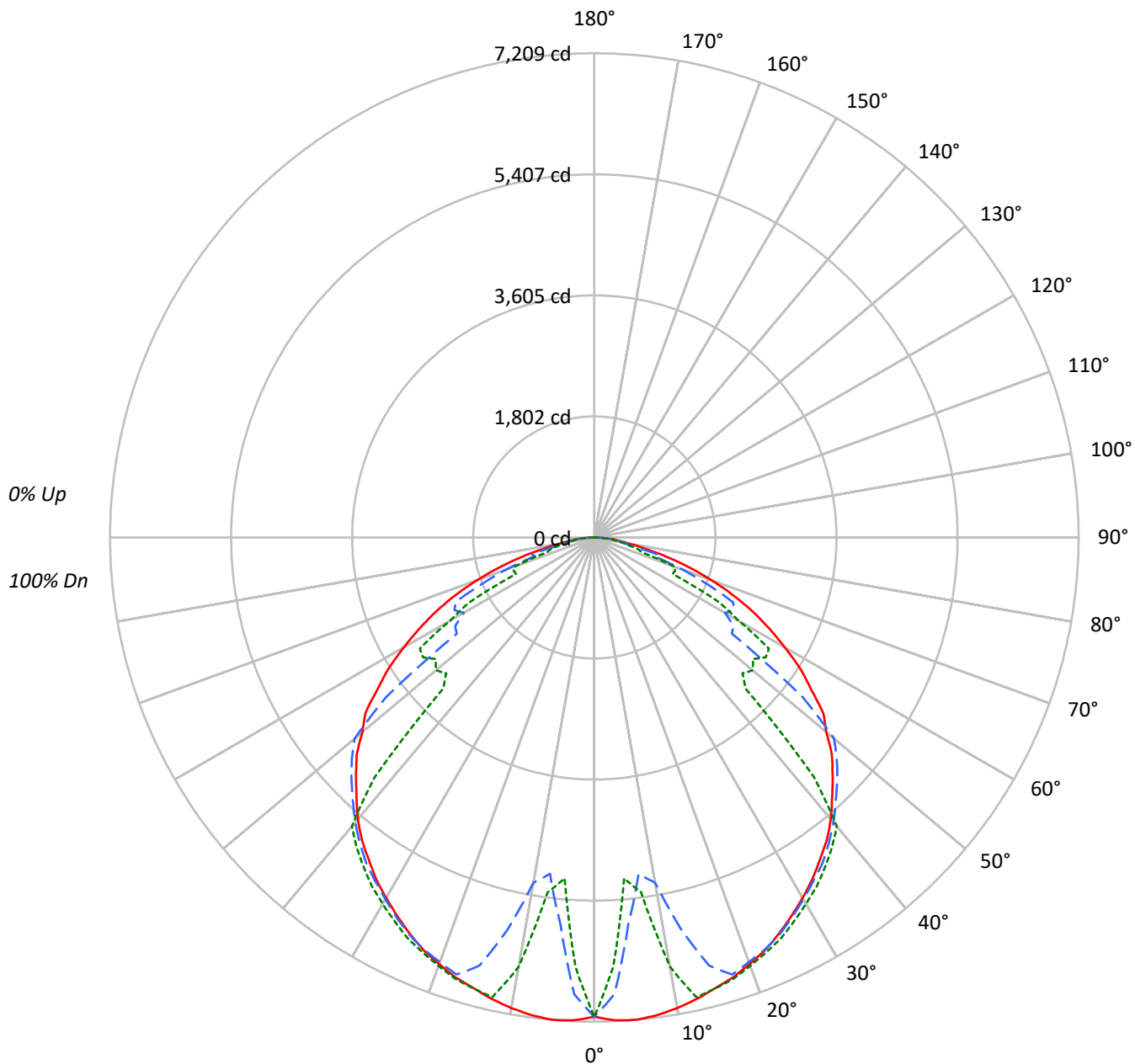
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11524	11524	11524
5°	11684	9387	8255
10°	11664	8561	10647
15°	11613	11033	11623
20°	11613	11560	11663
25°	11592	11618	11724
30°	11558	11597	11746
35°	11540	11668	11804
40°	11541	11667	11835
45°	11451	11675	7255
50°	11321	11698	7733
55°	11083	7034	8764
60°	10572	7251	8025
65°	9906	8706	4910
70°	8747	6596	6019
75°	6969	5995	4174
80°	4802	4333	3587
85°	4600	4000	3794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.8	3.0
10°-20°	1788.1	9.5
20°-30°	2941.8	15.6
30°-40°	3698.9	19.6
40°-50°	3627.7	19.2
50°-60°	3005.7	15.9
60°-70°	2120.0	11.2
70°-80°	924.9	4.9
80°-90°	231.1	1.2
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°	5300.6	28.0
0°-40°	8999.5	47.6
0°-60°	15633.0	82.7
0°-90°	18909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7138	7138	7138	7138	7138	
5°	7209	6710	5792	5251	5094	685
15°	6947	4825	6601	6974	6953	1965
25°	6507	5954	6521	6565	6581	2999
35°	5855	5851	5920	5959	5989	3668
45°	5015	5030	5113	4528	3177	3871
55°	3937	4066	2499	2841	3113	3523
65°	2593	2746	2279	1753	1285	2549
75°	1117	1095	961	628	669	1198
85°	248	221	216	207	205	258
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7137.5	7137.5	7137.5	7137.5	7137.5
2.5°	7196.4	7047.1	6809.8	6511.1	6405.3
5°	7209.2	6709.9	5791.6	5251.4	5093.5
7.5°	7172.6	6098.0	5049.1	5162.6	5329.9
10°	7114.5	5560.3	5221.5	6143.2	6494.0
12.5°	7040.2	5082.4	5981.9	6939.5	7009.5
15°	6947.2	4824.7	6600.7	6974.5	6953.2
17.5°	6868.7	4975.7	6822.6	6904.5	6889.1
20°	6758.6	5277.0	6727.9	6793.6	6787.6
22.5°	6647.6	5633.7	6638.2	6685.2	6685.2
25°	6506.8	5953.8	6521.3	6564.9	6581.1
27.5°	6352.3	6138.1	6375.3	6411.2	6440.2
30°	6199.5	6164.6	6220.1	6266.2	6300.3
32.5°	6038.3	6024.6	6068.1	6116.8	6160.3
35°	5854.7	5851.3	5919.6	5958.9	5988.8
37.5°	5682.3	5670.5	5733.6	5788.2	5811.2
40°	5475.8	5475.8	5535.6	5591.0	5615.0
42.5°	5240.2	5273.6	5319.7	5376.8	4842.6
45°	5015.0	5030.3	5113.1	4528.5	3177.4
47.5°	4798.1	4817.8	4896.4	2911.2	2990.6
50°	4507.2	4595.9	4657.3	2902.7	3078.5
52.5°	4294.7	4333.0	3909.7	2873.6	2972.6
55°	3937.1	4065.9	2498.9	2841.2	3113.4
57.5°	3631.5	3725.4	2457.2	2911.2	3080.1
60°	3273.9	3417.3	2245.4	2808.8	2485.3
62.5°	2930.8	3067.3	2344.5	2210.5	2104.6
65°	2592.8	2745.6	2278.8	1753.0	1285.3
67.5°	2222.4	2079.9	1817.9	1235.0	1299.9
70°	1852.9	1452.6	1397.2	1380.9	1275.1
72.5°	1473.1	1060.0	927.7	1036.1	741.7
75°	1117.2	1095.0	961.0	628.1	669.1
77.5°	774.9	790.3	514.6	612.8	508.6
80°	516.4	447.3	466.0	390.9	385.8
82.5°	357.6	365.3	306.4	297.0	301.3
85°	248.3	221.0	215.9	206.6	204.8
87.5°	82.7	96.5	89.7	81.1	86.2
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)