

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: P730557

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-WG-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17710.0 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

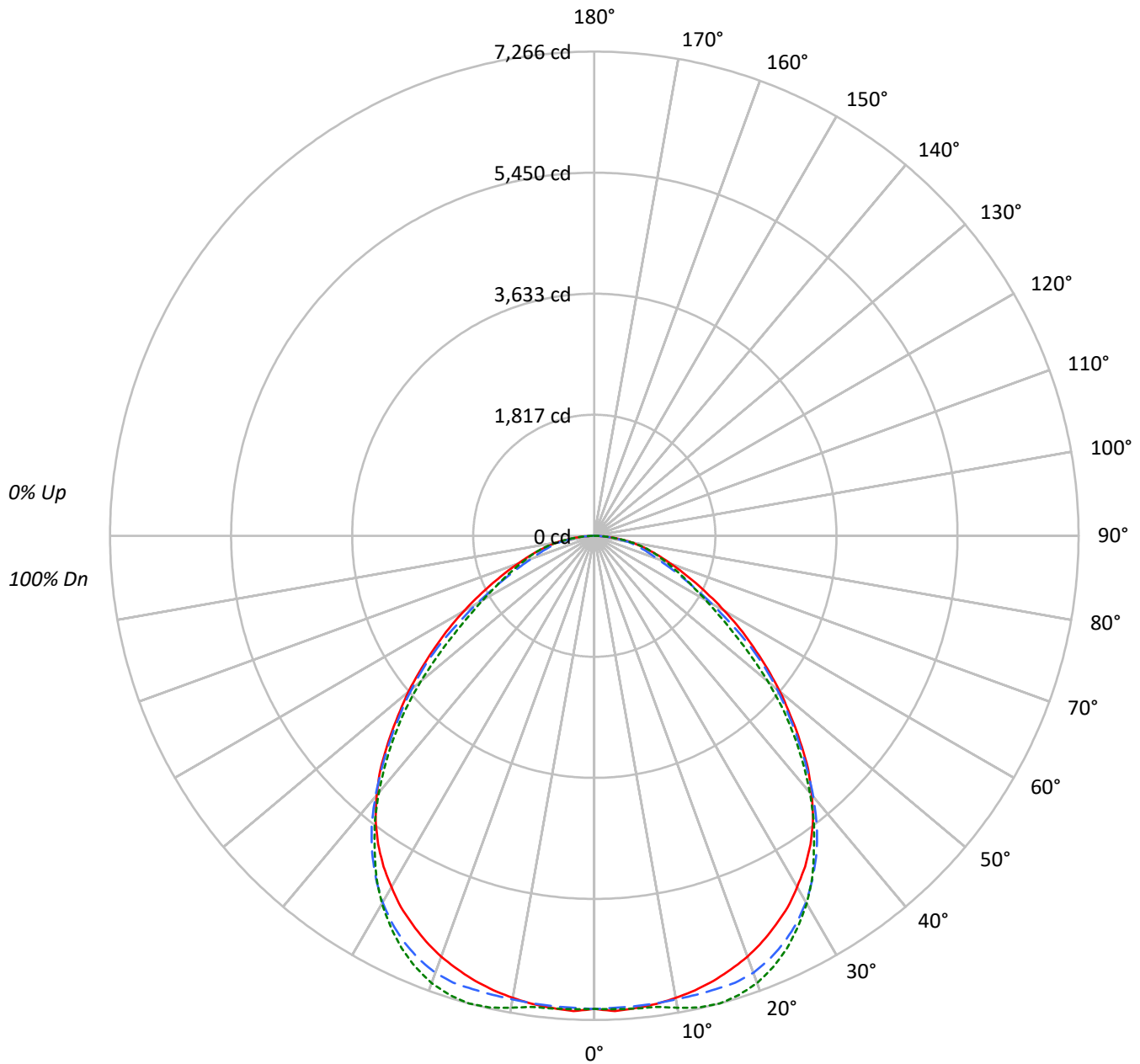
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11466	11466	11466
5°	11533	11485	11542
10°	11543	11582	11790
15°	11558	11775	12146
20°	11550	11991	12271
25°	11479	12001	12178
30°	11347	11842	11880
35°	11145	11459	11322
40°	10705	10771	10601
45°	9975	9870	9669
50°	9133	8985	8525
55°	8203	7899	7208
60°	7275	6536	6222
65°	6410	5430	5647
70°	5733	4713	5378
75°	5371	4582	5439
80°	5228	4632	5177
85°	4174	3664	3800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.5	3.8
10°-20°	1992.6	11.3
20°-30°	3065.3	17.3
30°-40°	3577.4	20.2
40°-50°	3324.3	18.8
50°-60°	2464.1	13.9
60°-70°	1506.4	8.5
70°-80°	858.0	4.8
80°-90°	245.4	1.4
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°	5734.3	32.4
0°-40°	9311.7	52.6
0°-60°	15100.2	85.3
0°-90°	17710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7101	7101	7101	7101	7101	
5°	7116	7083	7086	7081	7121	677
15°	6914	6911	7044	7184	7266	1952
25°	6444	6493	6737	6794	6836	2968
35°	5654	5698	5814	5766	5744	3523
45°	4368	4394	4323	4255	4235	3366
55°	2914	2841	2806	2606	2561	2615
65°	1678	1524	1421	1460	1478	1679
75°	861	808	734	837	872	921
85°	225	220	198	205	205	260
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7101.2	7101.2	7101.2	7101.2	7101.2
2.5°	7139.7	7099.4	7092.0	7075.6	7112.2
5°	7115.9	7082.9	7086.5	7081.1	7121.4
7.5°	7088.4	7064.6	7079.2	7077.4	7130.5
10°	7040.8	7027.9	7064.6	7104.9	7191.0
12.5°	6987.6	6974.8	7055.4	7158.0	7251.4
15°	6914.4	6910.7	7044.4	7183.6	7266.1
17.5°	6822.8	6828.3	7031.6	7150.7	7223.9
20°	6722.1	6731.2	6978.5	7075.6	7141.5
22.5°	6592.0	6623.2	6875.9	6956.5	7007.8
25°	6443.6	6493.1	6736.7	6793.5	6835.6
27.5°	6284.3	6333.7	6564.5	6593.8	6617.7
30°	6086.5	6156.1	6352.0	6355.8	6372.2
32.5°	5885.0	5947.3	6097.5	6081.0	6084.6
35°	5654.2	5698.2	5813.5	5766.0	5744.0
37.5°	5388.7	5412.4	5485.7	5414.3	5410.6
40°	5079.1	5110.2	5110.2	5011.3	5029.6
42.5°	4749.4	4760.3	4714.6	4621.2	4635.8
45°	4368.4	4394.0	4322.6	4254.9	4234.7
47.5°	3991.1	4016.7	3941.6	3862.9	3828.1
50°	3635.8	3622.9	3577.2	3443.4	3394.0
52.5°	3267.6	3227.3	3209.0	3013.1	2956.2
55°	2914.1	2840.9	2806.1	2606.4	2560.6
57.5°	2586.2	2454.4	2388.5	2232.8	2214.4
60°	2252.9	2104.5	2023.9	1923.2	1926.8
62.5°	1950.7	1794.9	1697.9	1668.6	1681.4
65°	1677.8	1523.9	1421.4	1459.8	1478.1
67.5°	1430.5	1304.1	1188.7	1278.5	1296.8
70°	1214.4	1113.6	998.3	1130.1	1139.3
72.5°	1034.8	952.5	855.4	979.9	1000.0
75°	860.9	807.8	734.5	837.1	871.9
77.5°	708.8	666.7	624.6	686.9	725.3
80°	562.3	520.2	498.2	531.1	556.8
82.5°	397.5	370.0	348.0	371.8	384.7
85°	225.3	219.8	197.8	205.1	205.1
87.5°	51.3	58.6	65.9	60.4	51.3
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)