

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: P730538

Luminaire Tested: **HBLED-LD5-18HE-W-A-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730538
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-L735
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: 17034.0 lumens
Efficiency: N/A
Efficacy: 154.6 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

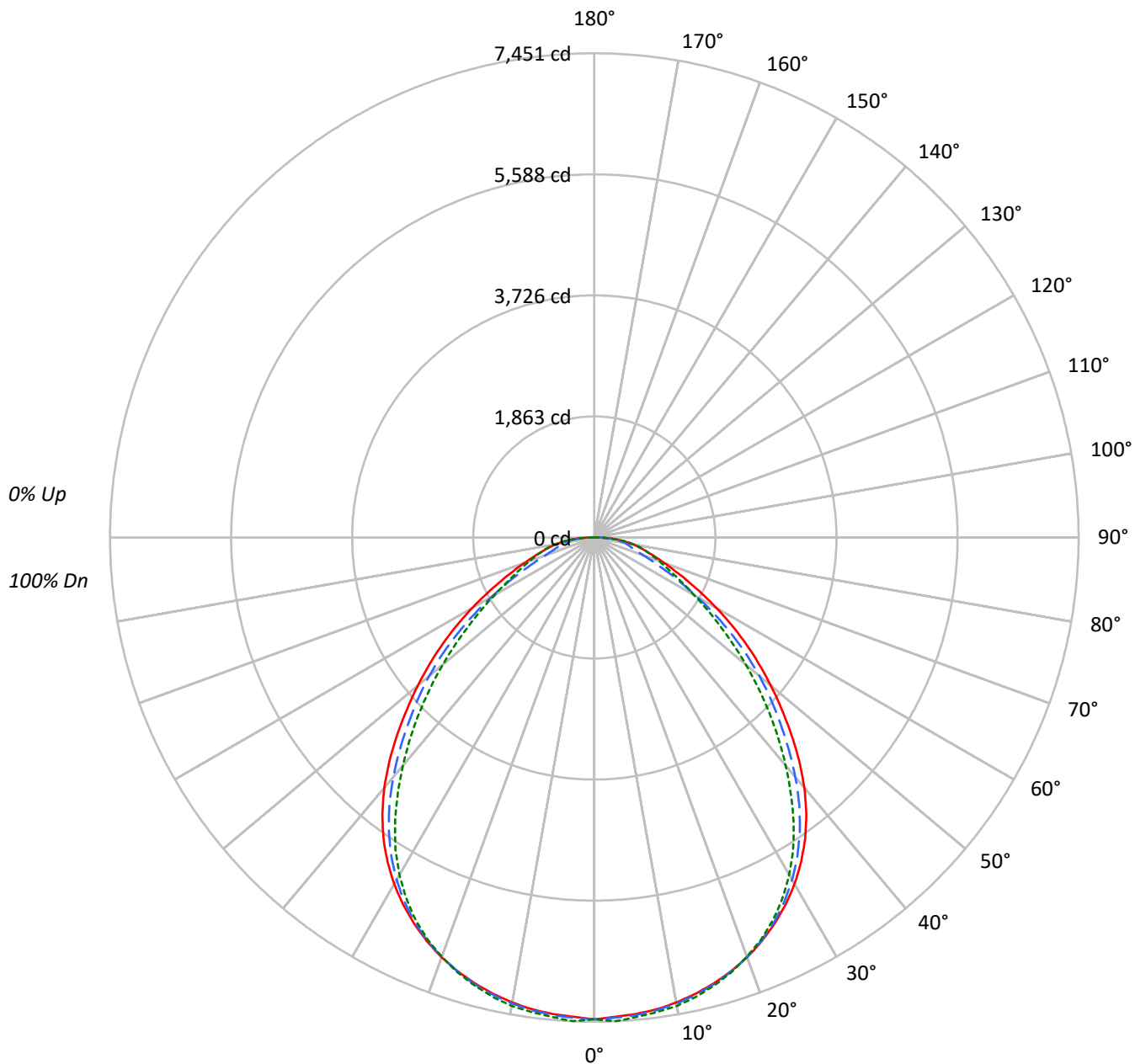
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11972	11972	11972
5°	11930	11957	12006
10°	11913	11941	12001
15°	11873	11897	11925
20°	11811	11803	11794
25°	11683	11643	11577
30°	11481	11342	11177
35°	11148	10867	10533
40°	10593	10138	9652
45°	9786	9240	8680
50°	8896	8321	7636
55°	7999	7203	6601
60°	7000	5887	5728
65°	6035	4629	5169
70°	5381	3778	4982
75°	5154	3688	5206
80°	5575	4363	5800
85°	6260	5252	6321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.8	4.1
10°-20°	2011.3	11.8
20°-30°	3008.7	17.7
30°-40°	3432.7	20.2
40°-50°	3124.7	18.3
50°-60°	2294.4	13.5
60°-70°	1354.7	8.0
70°-80°	776.4	4.6
80°-90°	328.3	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°	5722.8	33.6
0°-40°	9155.5	53.7
0°-60°	14574.6	85.6
0°-90°	17034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7415	7415	7415	7415	7415	
5°	7361	7407	7378	7407	7408	700
15°	7103	7142	7117	7142	7134	2004
25°	6558	6581	6535	6533	6499	3019
35°	5656	5628	5514	5419	5344	3524
45°	4286	4261	4047	3865	3802	3303
55°	2842	2710	2559	2373	2345	2541
65°	1580	1379	1212	1296	1353	1590
75°	826	708	591	771	835	891
85°	338	312	284	334	341	353
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7415.2	7415.2	7415.2	7415.2	7415.2
2.5°	7380.9	7423.5	7396.8	7426.0	7451.1
5°	7360.9	7406.8	7377.6	7406.8	7407.6
7.5°	7324.1	7366.7	7338.3	7370.1	7366.7
10°	7266.3	7309.0	7283.1	7317.4	7319.9
12.5°	7192.7	7233.7	7207.0	7246.3	7239.6
15°	7103.2	7142.5	7117.4	7142.5	7134.2
17.5°	6997.9	7033.9	7001.3	7028.9	7014.7
20°	6874.1	6904.2	6869.1	6895.0	6864.1
22.5°	6726.1	6752.8	6716.1	6730.3	6698.5
25°	6558.0	6581.4	6535.4	6532.9	6498.6
27.5°	6370.7	6383.3	6324.7	6304.6	6265.3
30°	6158.3	6161.6	6083.8	6046.3	5995.2
32.5°	5919.9	5911.6	5812.0	5756.0	5693.3
35°	5655.7	5628.1	5513.5	5419.0	5343.8
37.5°	5357.2	5313.7	5176.5	5036.9	4964.9
40°	5026.0	4975.0	4810.2	4637.1	4579.4
42.5°	4665.6	4622.1	4428.0	4247.4	4190.5
45°	4285.9	4260.8	4046.7	3865.2	3801.6
47.5°	3906.2	3887.8	3678.8	3493.9	3417.0
50°	3541.6	3501.4	3312.5	3110.1	3039.9
52.5°	3187.8	3105.9	2939.5	2732.1	2680.3
55°	2841.6	2710.4	2559.0	2373.4	2344.9
57.5°	2498.7	2329.0	2181.8	2043.0	2042.2
60°	2167.6	1973.6	1823.0	1750.3	1773.8
62.5°	1857.3	1658.3	1495.2	1500.2	1542.9
65°	1579.7	1379.0	1211.7	1296.2	1353.1
67.5°	1341.4	1149.9	980.1	1137.3	1191.6
70°	1139.8	966.7	800.3	996.8	1055.4
72.5°	970.1	824.6	674.9	879.7	939.1
75°	826.2	708.3	591.2	771.1	834.6
77.5°	709.2	604.6	530.2	667.3	733.4
80°	599.6	507.6	469.2	567.0	623.8
82.5°	475.0	411.5	388.9	460.8	490.1
85°	337.9	311.9	283.5	334.5	341.2
87.5°	185.6	192.3	158.9	192.3	193.1
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)