

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: P730540

Luminaire Tested: **HBLED-LD5-18HE-W-A-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730540
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-L750
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: 17973.0 lumens
Efficiency: N/A
Efficacy: 163.1 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

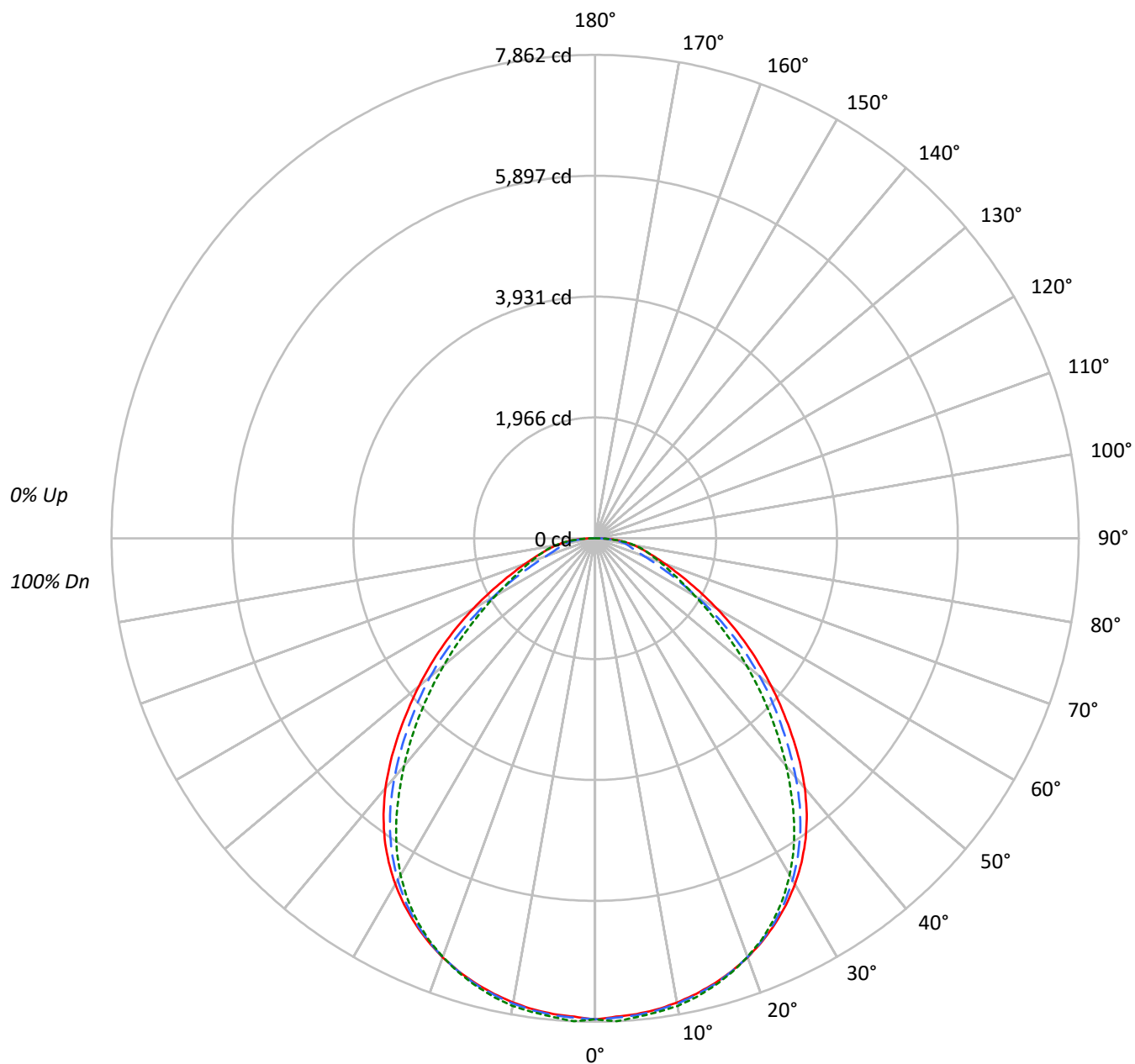
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12632	12632	12632
5°	12588	12616	12668
10°	12570	12599	12662
15°	12528	12553	12583
20°	12462	12453	12444
25°	12327	12285	12216
30°	12114	11968	11793
35°	11762	11467	11113
40°	11177	10697	10184
45°	10326	9749	9159
50°	9386	8779	8057
55°	8440	7601	6964
60°	7385	6211	6043
65°	6368	4884	5454
70°	5678	3987	5257
75°	5439	3891	5493
80°	5883	4603	6120
85°	6604	5541	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.5	4.1
10°-20°	2122.2	11.8
20°-30°	3174.6	17.7
30°-40°	3621.9	20.2
40°-50°	3296.9	18.3
50°-60°	2420.9	13.5
60°-70°	1429.4	8.0
70°-80°	819.2	4.6
80°-90°	346.4	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°	6038.2	33.6
0°-40°	9660.1	53.7
0°-60°	15378.0	85.6
0°-90°	17973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7824	7824	7824	7824	7824	
5°	7767	7815	7784	7815	7816	738
15°	7495	7536	7510	7536	7528	2115
25°	6920	6944	6896	6893	6857	3185
35°	5967	5938	5818	5718	5638	3718
45°	4522	4496	4270	4078	4011	3485
55°	2998	2860	2700	2504	2474	2681
65°	1667	1455	1278	1368	1428	1677
75°	872	747	624	814	881	940
85°	356	329	299	353	360	373
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7823.9	7823.9	7823.9	7823.9	7823.9
2.5°	7787.7	7832.8	7804.5	7835.4	7861.9
5°	7766.6	7815.1	7784.2	7815.1	7816.0
7.5°	7727.8	7772.8	7742.8	7776.3	7772.8
10°	7666.9	7711.9	7684.6	7720.7	7723.4
12.5°	7589.2	7632.5	7604.3	7645.7	7638.7
15°	7494.8	7536.3	7509.8	7536.3	7527.5
17.5°	7383.6	7421.6	7387.2	7416.3	7401.3
20°	7253.0	7284.8	7247.8	7275.1	7242.5
22.5°	7096.9	7125.1	7086.3	7101.3	7067.7
25°	6919.5	6944.2	6895.7	6893.0	6856.9
27.5°	6721.8	6735.1	6673.3	6652.1	6610.7
30°	6497.8	6501.3	6419.2	6379.6	6325.7
32.5°	6246.2	6237.5	6132.4	6073.3	6007.1
35°	5967.4	5938.3	5817.5	5717.8	5638.3
37.5°	5652.5	5606.6	5461.9	5314.5	5238.6
40°	5303.0	5249.2	5075.4	4892.7	4831.8
42.5°	4922.8	4876.9	4672.1	4481.5	4421.5
45°	4522.2	4495.7	4269.7	4078.3	4011.2
47.5°	4121.5	4102.1	3881.6	3686.5	3605.3
50°	3736.8	3694.5	3495.1	3281.5	3207.4
52.5°	3363.6	3277.1	3101.5	2882.7	2828.0
55°	2998.3	2859.8	2700.1	2504.2	2474.1
57.5°	2636.5	2457.4	2302.1	2155.6	2154.8
60°	2287.1	2082.4	1923.5	1846.8	1871.5
62.5°	1959.7	1749.7	1577.7	1582.9	1628.0
65°	1666.8	1455.0	1278.5	1367.7	1427.7
67.5°	1415.3	1213.2	1034.1	1200.0	1257.3
70°	1202.7	1020.0	844.5	1051.8	1113.6
72.5°	1023.6	870.0	712.1	928.2	990.9
75°	871.8	747.3	623.8	813.6	880.6
77.5°	748.3	637.9	559.5	704.1	773.8
80°	632.7	535.6	495.0	598.3	658.2
82.5°	501.1	434.2	410.3	486.2	517.1
85°	356.5	329.1	299.1	352.9	360.0
87.5°	195.9	202.9	167.6	202.9	203.8
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)