

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: P730539

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730539
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-L740
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: 17551.0 lumens
Efficiency: N/A
Efficacy: 159.3 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

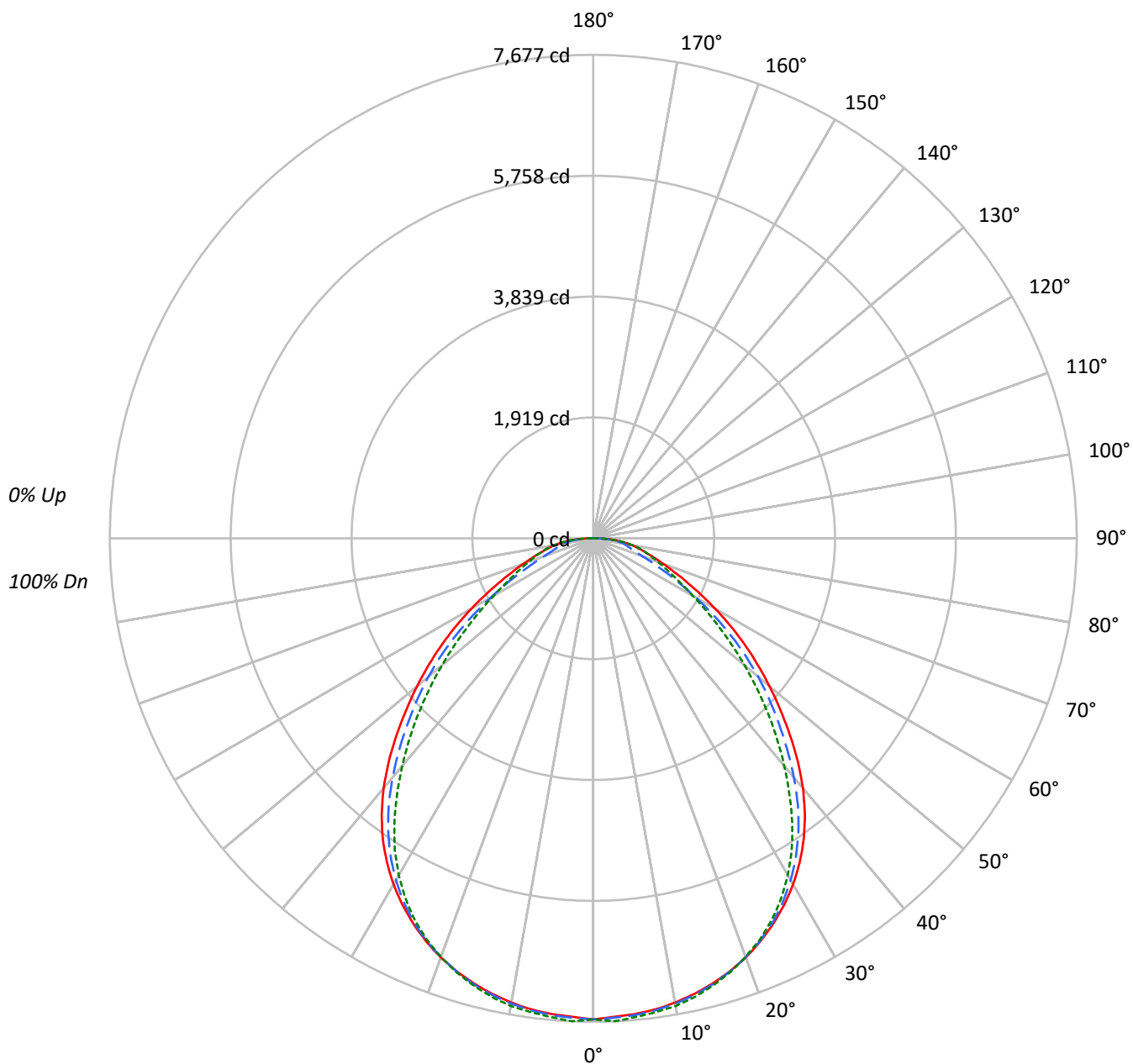
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12336	12336	12336
5°	12292	12320	12370
10°	12275	12303	12365
15°	12234	12258	12287
20°	12170	12161	12152
25°	12038	11996	11929
30°	11830	11687	11516
35°	11486	11197	10853
40°	10915	10446	9945
45°	10083	9521	8944
50°	9166	8573	7867
55°	8242	7422	6801
60°	7212	6066	5902
65°	6219	4770	5326
70°	5544	3893	5133
75°	5311	3800	5364
80°	5744	4495	5977
85°	6449	5411	6513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.1	4.1
10°-20°	2072.3	11.8
20°-30°	3100.0	17.7
30°-40°	3536.9	20.2
40°-50°	3219.5	18.3
50°-60°	2364.1	13.5
60°-70°	1395.9	8.0
70°-80°	800.0	4.6
80°-90°	338.2	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°	5896.5	33.6
0°-40°	9433.3	53.7
0°-60°	15016.9	85.6
0°-90°	17551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7640	7640	7640	7640	7640	
5°	7584	7632	7602	7632	7632	721
15°	7319	7359	7334	7359	7351	2065
25°	6757	6781	6734	6731	6696	3110
35°	5827	5799	5681	5584	5506	3631
45°	4416	4390	4170	3982	3917	3403
55°	2928	2793	2637	2445	2416	2618
65°	1628	1421	1248	1336	1394	1638
75°	851	730	609	794	860	918
85°	348	321	292	345	352	364
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7640.2	7640.2	7640.2	7640.2	7640.2
2.5°	7604.9	7648.9	7621.3	7651.4	7677.3
5°	7584.3	7631.6	7601.5	7631.6	7632.5
7.5°	7546.4	7590.2	7561.0	7593.7	7590.2
10°	7486.8	7530.8	7504.1	7539.5	7542.0
12.5°	7411.0	7453.3	7425.7	7466.2	7459.3
15°	7318.8	7359.3	7333.5	7359.3	7350.8
17.5°	7210.3	7247.3	7213.8	7242.2	7227.6
20°	7082.7	7113.8	7077.6	7104.3	7072.4
22.5°	6930.3	6957.8	6919.9	6934.5	6901.8
25°	6757.0	6781.2	6733.8	6731.2	6695.9
27.5°	6564.0	6577.0	6516.6	6495.9	6455.5
30°	6345.2	6348.6	6268.5	6229.8	6177.1
32.5°	6099.6	6091.0	5988.4	5930.7	5866.1
35°	5827.3	5798.9	5680.9	5583.5	5506.0
37.5°	5519.8	5475.0	5333.6	5189.7	5115.6
40°	5178.5	5126.0	4956.2	4777.8	4718.4
42.5°	4807.2	4762.4	4562.4	4376.3	4317.7
45°	4416.0	4390.1	4169.5	3982.5	3917.0
47.5°	4024.8	4005.8	3790.4	3600.0	3520.7
50°	3649.1	3607.7	3413.0	3204.5	3132.1
52.5°	3284.6	3200.1	3028.7	2815.0	2761.6
55°	2927.9	2792.6	2636.7	2445.4	2416.1
57.5°	2574.6	2399.7	2248.1	2105.0	2104.2
60°	2233.4	2033.5	1878.4	1803.4	1827.6
62.5°	1913.7	1708.6	1540.6	1545.8	1589.8
65°	1627.7	1420.8	1248.5	1335.5	1394.2
67.5°	1382.1	1184.8	1009.8	1171.9	1227.8
70°	1174.4	996.1	824.6	1027.1	1087.4
72.5°	999.5	849.6	695.4	906.4	967.6
75°	851.3	729.8	609.2	794.5	859.9
77.5°	730.7	623.0	546.3	687.6	755.6
80°	617.8	523.0	483.4	584.2	642.8
82.5°	489.4	424.0	400.7	474.7	504.9
85°	348.1	321.4	292.1	344.7	351.6
87.5°	191.3	198.2	163.7	198.2	199.0
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)