

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: P730561

Luminaire Tested: **HBLED-LD5-18HE-W-CL-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730561
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-L850
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: 17237.0 lumens
Efficiency: N/A
Efficacy: 156.4 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

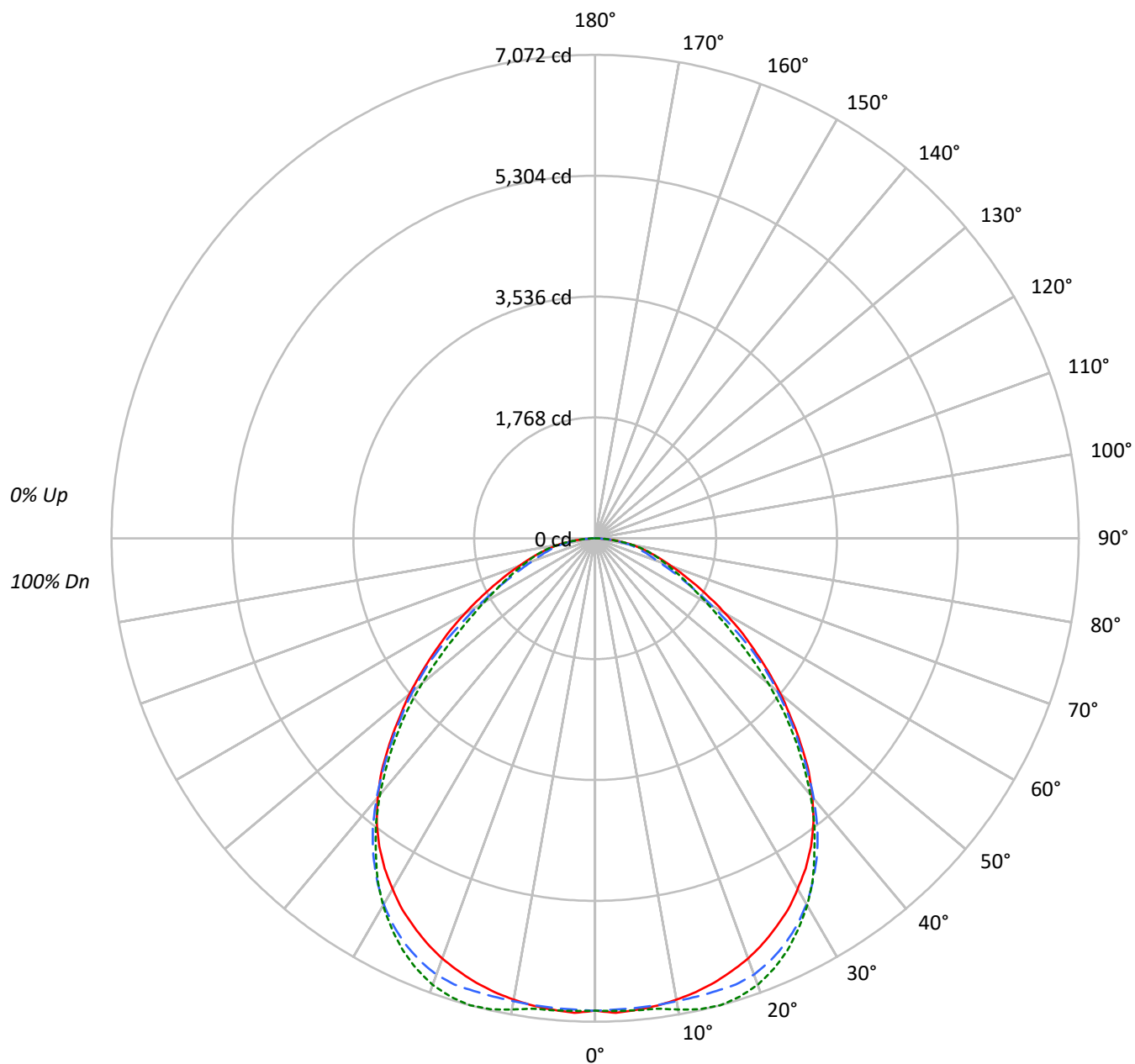
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11159	11159	11159
5°	11225	11179	11234
10°	11235	11273	11475
15°	11249	11461	11821
20°	11241	11670	11943
25°	11173	11681	11852
30°	11044	11526	11563
35°	10847	11153	11019
40°	10419	10483	10318
45°	9708	9606	9411
50°	8889	8746	8298
55°	7984	7688	7015
60°	7081	6361	6056
65°	6239	5285	5496
70°	5579	4587	5235
75°	5227	4460	5294
80°	5089	4509	5039
85°	4063	3568	3698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.4	3.8
10°-20°	1939.3	11.3
20°-30°	2983.4	17.3
30°-40°	3481.9	20.2
40°-50°	3235.6	18.8
50°-60°	2398.3	13.9
60°-70°	1466.1	8.5
70°-80°	835.1	4.8
80°-90°	238.8	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°	5581.2	32.4
0°-40°	9063.0	52.6
0°-60°	14696.9	85.3
0°-90°	17237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6912	6912	6912	6912	6912	
5°	6926	6894	6897	6892	6931	659
15°	6730	6726	6856	6992	7072	1900
25°	6272	6320	6557	6612	6653	2889
35°	5503	5546	5658	5612	5590	3429
45°	4252	4277	4207	4141	4122	3276
55°	2836	2765	2731	2537	2492	2545
65°	1633	1483	1383	1421	1439	1634
75°	838	786	715	815	849	897
85°	219	214	193	200	200	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6911.6	6911.6	6911.6	6911.6	6911.6
2.5°	6949.0	6909.8	6902.6	6886.6	6922.2
5°	6925.8	6893.7	6897.2	6892.0	6931.2
7.5°	6899.0	6875.9	6890.1	6888.3	6940.1
10°	6852.7	6840.2	6875.9	6915.1	6998.9
12.5°	6801.0	6788.6	6867.0	6966.8	7057.7
15°	6729.7	6726.1	6856.3	6991.7	7072.0
17.5°	6640.6	6645.9	6843.8	6959.7	7031.0
20°	6542.5	6551.4	6792.1	6886.6	6950.8
22.5°	6416.0	6446.3	6692.2	6770.7	6820.6
25°	6271.5	6319.7	6556.8	6612.1	6653.0
27.5°	6116.5	6164.6	6389.2	6417.7	6440.9
30°	5923.9	5991.6	6182.4	6186.0	6202.0
32.5°	5727.8	5788.5	5934.6	5918.6	5922.1
35°	5503.2	5546.0	5658.3	5612.0	5590.5
37.5°	5244.7	5267.9	5339.2	5269.7	5266.1
40°	4943.4	4973.7	4973.7	4877.5	4895.3
42.5°	4622.6	4633.2	4588.7	4497.7	4512.0
45°	4251.7	4276.7	4207.1	4141.2	4121.6
47.5°	3884.5	3909.4	3836.4	3759.7	3725.9
50°	3538.7	3526.2	3481.7	3351.5	3303.4
52.5°	3180.3	3141.1	3123.3	2932.6	2877.3
55°	2836.3	2765.0	2731.1	2536.8	2492.2
57.5°	2517.1	2388.9	2324.7	2173.2	2155.3
60°	2192.8	2048.3	1969.9	1871.8	1875.4
62.5°	1898.6	1747.0	1652.6	1624.1	1636.5
65°	1633.0	1483.2	1383.4	1420.8	1438.6
67.5°	1392.3	1269.3	1157.0	1244.3	1262.1
70°	1181.9	1083.9	971.6	1100.0	1108.9
72.5°	1007.2	927.0	832.5	953.7	973.3
75°	837.9	786.2	714.9	814.7	848.6
77.5°	689.9	648.9	607.9	668.5	706.0
80°	547.3	506.3	484.9	516.9	541.9
82.5°	386.8	360.1	338.7	361.9	374.4
85°	219.3	213.9	192.6	199.6	199.6
87.5°	49.9	57.0	64.2	58.8	49.9
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)