

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: P730555

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
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-UNV-L850
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17528.0 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

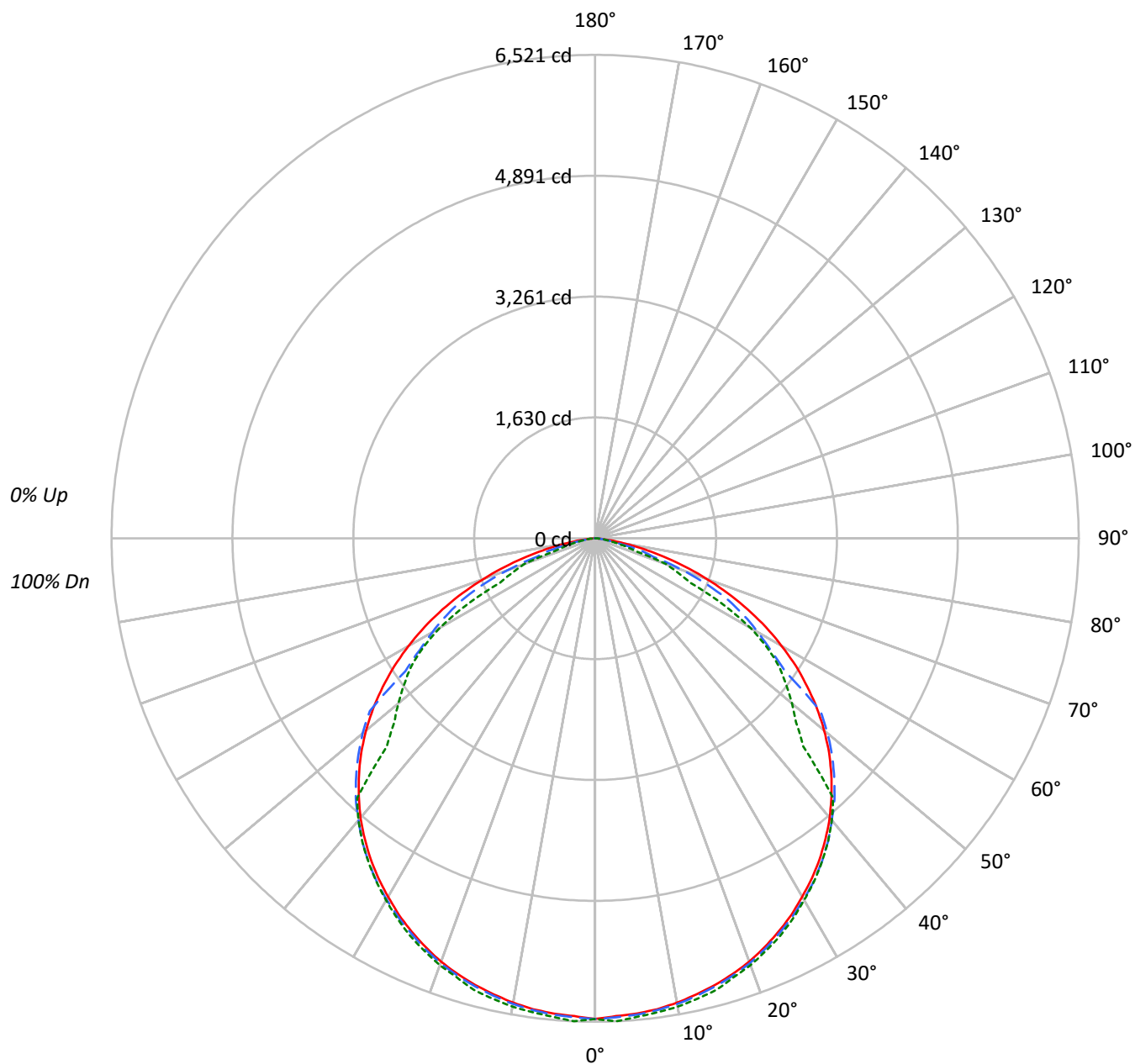
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10468	10468	10468
5°	10430	10453	10504
10°	10429	10459	10520
15°	10428	10460	10545
20°	10442	10481	10530
25°	10430	10469	10532
30°	10410	10486	10510
35°	10405	10500	10508
40°	10372	10464	10464
45°	10284	10408	9069
50°	10125	10277	8701
55°	9837	8798	8546
60°	9376	8178	7808
65°	8671	7591	5407
70°	7550	5907	4818
75°	5964	3964	2590
80°	3838	1893	1614
85°	1580	1156	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.0	3.5
10°-20°	1772.7	10.1
20°-30°	2717.8	15.5
30°-40°	3331.1	19.0
40°-50°	3424.6	19.5
50°-60°	2922.8	16.7
60°-70°	1932.3	11.0
70°-80°	715.9	4.1
80°-90°	95.7	0.5
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°	5105.6	29.1
0°-40°	8436.7	48.1
0°-60°	14784.1	84.3
0°-90°	17528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17528.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6484	6484	6484	6484	6484	
5°	6435	6480	6450	6475	6481	612
15°	6239	6277	6258	6305	6308	1762
25°	5854	5885	5876	5929	5912	2699
35°	5279	5315	5327	5360	5331	3302
45°	4504	4549	4558	4551	3972	3471
55°	3495	3559	3125	3035	3036	3118
65°	2270	2288	1987	1634	1415	2238
75°	956	838	636	427	415	1026
85°	85	61	62	68	69	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6483.5	6483.5	6483.5	6483.5	6483.5
2.5°	6451.9	6492.2	6468.5	6498.5	6521.4
5°	6435.4	6480.4	6449.6	6474.8	6481.2
7.5°	6407.0	6448.8	6420.4	6453.5	6448.8
10°	6361.2	6399.1	6379.3	6414.1	6416.4
12.5°	6302.8	6340.6	6322.5	6365.1	6364.3
15°	6238.8	6276.7	6257.7	6305.1	6308.3
17.5°	6163.8	6198.6	6184.3	6227.8	6210.4
20°	6077.0	6107.0	6099.8	6140.9	6128.3
22.5°	5970.4	6001.2	5994.1	6041.5	6022.5
25°	5854.4	5885.2	5876.5	5929.4	5912.0
27.5°	5728.9	5758.0	5757.2	5807.0	5780.2
30°	5583.6	5622.3	5624.7	5668.9	5637.3
32.5°	5440.0	5476.2	5486.5	5518.9	5492.1
35°	5278.9	5315.2	5327.0	5360.2	5331.0
37.5°	5105.2	5136.0	5157.3	5181.7	5158.9
40°	4921.2	4948.9	4964.7	4994.6	4964.7
42.5°	4716.0	4755.5	4777.6	4798.9	4750.0
45°	4503.7	4548.6	4558.1	4551.0	3971.6
47.5°	4278.7	4327.6	4333.2	3779.0	3672.4
50°	4030.8	4092.4	4091.6	3492.4	3464.0
52.5°	3772.7	3831.9	3829.5	3268.2	3249.3
55°	3494.7	3558.7	3125.3	3034.6	3036.1
57.5°	3211.4	3257.1	2804.1	2807.9	2755.8
60°	2903.5	2946.9	2532.5	2508.0	2418.0
62.5°	2594.9	2613.0	2269.6	2150.4	1979.1
65°	2269.6	2288.5	1987.0	1634.1	1415.4
67.5°	1935.7	1954.6	1649.1	1215.7	1199.1
70°	1599.3	1444.6	1251.3	1012.9	1020.7
72.5°	1267.8	1109.9	817.8	784.7	566.8
75°	956.0	837.6	635.5	427.1	415.2
77.5°	665.5	577.1	340.2	291.3	272.4
80°	412.8	289.7	203.6	180.8	173.6
82.5°	209.2	166.6	110.5	110.5	110.5
85°	85.3	60.8	62.4	67.9	68.6
87.5°	18.1	24.5	30.0	30.8	30.0
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)