

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: P730656

Luminaire Tested: **HBLED-LD5-18SE-W-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-WG-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17741.0 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

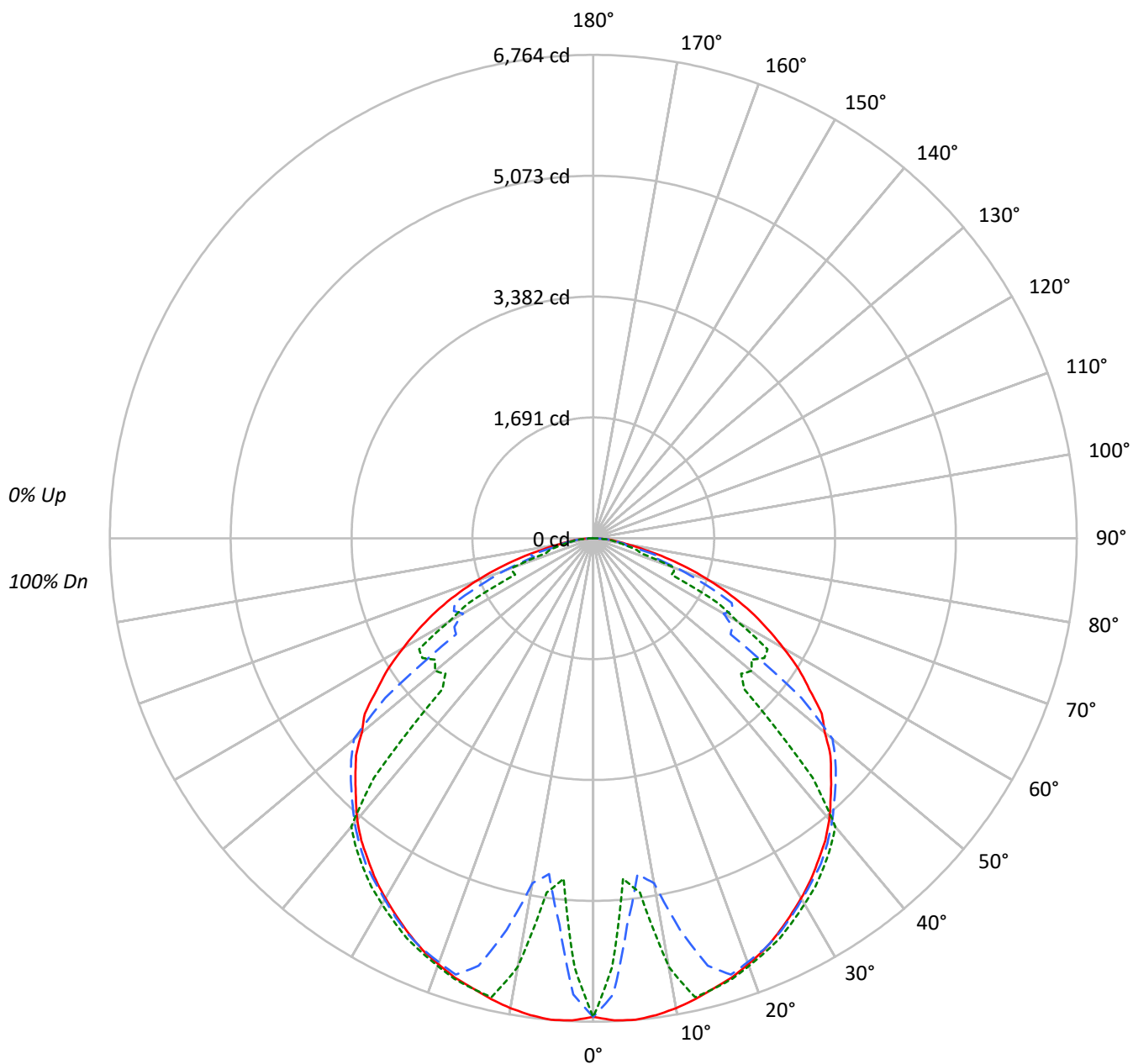
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10812	10812	10812
5°	10963	8807	7745
10°	10944	8032	9989
15°	10895	10352	10905
20°	10895	10846	10942
25°	10876	10900	11000
30°	10844	10880	11020
35°	10827	10947	11075
40°	10828	10947	11104
45°	10744	10954	6807
50°	10622	10976	7255
55°	10398	6600	8223
60°	9919	6803	7530
65°	9294	8168	4607
70°	8207	6188	5647
75°	6539	5625	3916
80°	4505	4065	3366
85°	4316	3753	3561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.5	3.0
10°-20°	1677.6	9.5
20°-30°	2760.1	15.6
30°-40°	3470.4	19.6
40°-50°	3403.6	19.2
50°-60°	2820.1	15.9
60°-70°	1989.1	11.2
70°-80°	867.8	4.9
80°-90°	216.8	1.2
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°	4973.2	28.0
0°-40°	8443.6	47.6
0°-60°	14667.3	82.7
0°-90°	17741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6697	6697	6697	6697	6697	
5°	6764	6295	5434	4927	4779	642
15°	6518	4527	6193	6544	6524	1843
25°	6105	5586	6118	6159	6175	2814
35°	5493	5490	5554	5591	5619	3442
45°	4705	4720	4797	4249	2981	3632
55°	3694	3815	2345	2666	2921	3305
65°	2433	2576	2138	1645	1206	2392
75°	1048	1027	902	589	628	1124
85°	233	207	203	194	192	242
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6696.7	6696.7	6696.7	6696.7	6696.7
2.5°	6751.9	6611.8	6389.2	6108.9	6009.6
5°	6763.9	6295.4	5433.9	4927.0	4778.8
7.5°	6729.5	5721.3	4737.3	4843.7	5000.7
10°	6675.0	5216.9	4899.0	5763.8	6092.9
12.5°	6605.4	4768.5	5612.4	6510.9	6576.5
15°	6518.1	4526.7	6193.0	6543.7	6523.7
17.5°	6444.4	4668.4	6401.2	6478.0	6463.6
20°	6341.1	4951.0	6312.3	6373.9	6368.3
22.5°	6237.0	5285.7	6228.2	6272.3	6272.3
25°	6104.9	5586.0	6118.5	6159.4	6174.6
27.5°	5959.9	5758.9	5981.5	6015.2	6042.4
30°	5816.6	5783.8	5835.9	5879.1	5911.1
32.5°	5665.3	5652.5	5693.3	5739.0	5779.8
35°	5493.1	5489.9	5554.0	5590.8	5618.9
37.5°	5331.3	5320.2	5379.4	5430.7	5452.3
40°	5137.6	5137.6	5193.6	5245.7	5268.1
42.5°	4916.6	4947.8	4991.1	5044.7	4543.4
45°	4705.2	4719.6	4797.3	4248.8	2981.2
47.5°	4501.8	4520.2	4593.9	2731.3	2805.8
50°	4228.7	4312.0	4369.7	2723.4	2888.3
52.5°	4029.4	4065.4	3668.2	2696.1	2789.0
55°	3693.9	3814.7	2344.6	2665.7	2921.1
57.5°	3407.2	3495.3	2305.4	2731.3	2889.9
60°	3071.7	3206.2	2106.7	2635.3	2331.8
62.5°	2749.7	2877.9	2199.7	2074.0	1974.6
65°	2432.6	2576.0	2138.0	1644.7	1205.9
67.5°	2085.1	1951.5	1705.6	1158.7	1219.6
70°	1738.4	1362.9	1310.9	1295.6	1196.3
72.5°	1382.1	994.5	870.4	972.1	695.8
75°	1048.2	1027.4	901.7	589.3	627.8
77.5°	727.1	741.5	482.8	574.9	477.2
80°	484.5	419.6	437.2	366.7	362.0
82.5°	335.5	342.7	287.5	278.6	282.7
85°	233.0	207.4	202.6	193.8	192.2
87.5°	77.6	90.5	84.1	76.1	80.9
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)