

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: P730647

Luminaire Tested: **HBLED-LD5-18SE-W-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-UNV-L740
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19625.0 lumens
Efficiency: N/A
Efficacy: 170.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

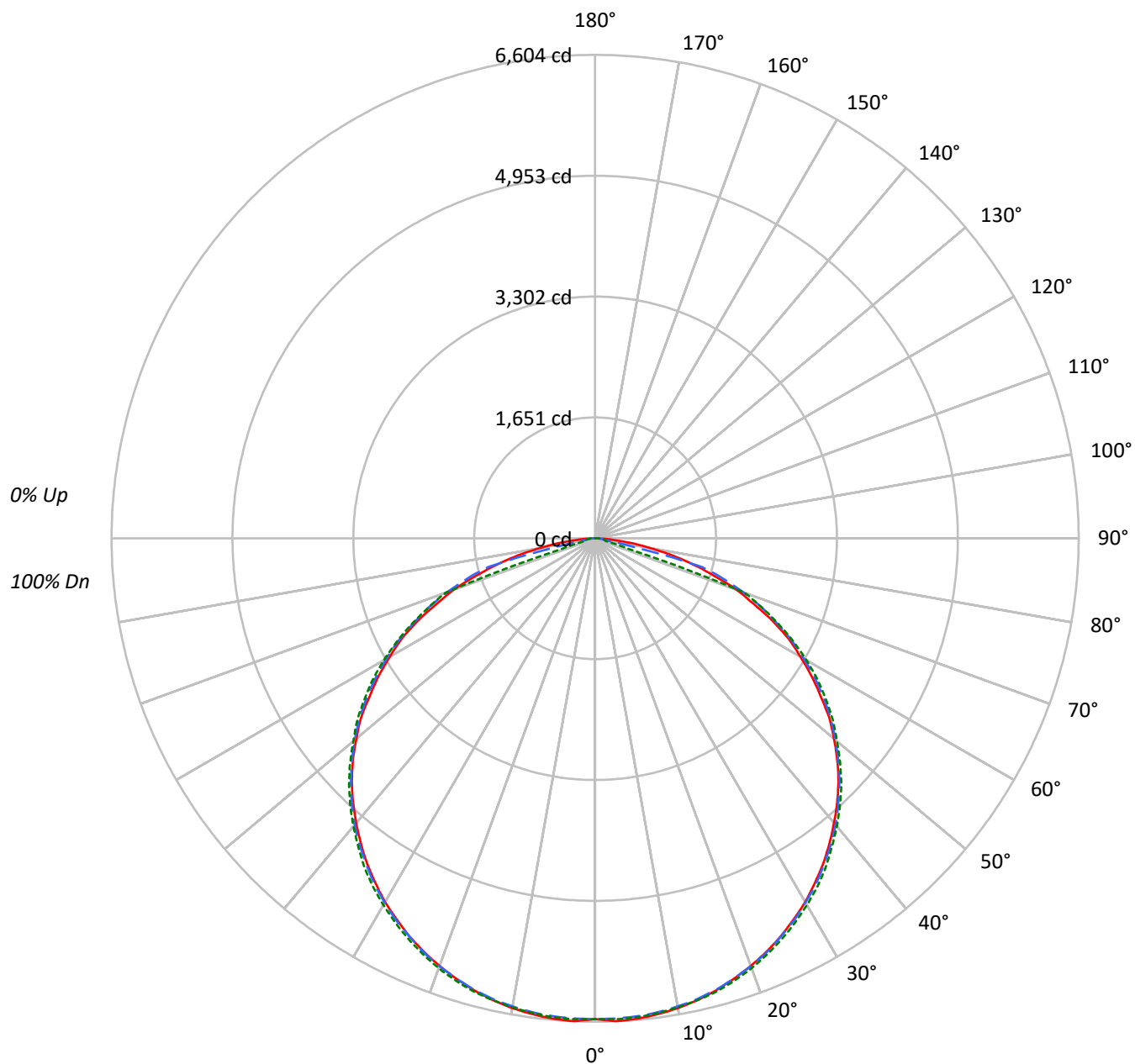
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10603	10603	10603
5°	10679	10625	10644
10°	10685	10647	10668
15°	10684	10669	10718
20°	10683	10685	10741
25°	10688	10693	10758
30°	10700	10713	10784
35°	10698	10732	10822
40°	10699	10767	10826
45°	10729	10770	10856
50°	10697	10760	10829
55°	10579	10727	10843
60°	10459	10629	10762
65°	10228	10440	10518
70°	9710	10125	10249
75°	8661	9391	1132
80°	6964	1170	1238
85°	4635	1517	1545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.7	3.2
10°-20°	1802.3	9.2
20°-30°	2769.1	14.1
30°-40°	3408.8	17.4
40°-50°	3634.2	18.5
50°-60°	3397.2	17.3
60°-70°	2689.3	13.7
70°-80°	1144.2	5.8
80°-90°	156.2	0.8
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°	5195.1	26.5
0°-40°	8603.9	43.8
0°-60°	15635.3	79.7
0°-90°	19625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6567	6567	6567	6567	6567	
5°	6589	6560	6555	6529	6567	626
15°	6392	6380	6383	6365	6412	1805
25°	6000	5992	6002	6000	6039	2766
35°	5428	5419	5445	5464	5490	3396
45°	4699	4673	4716	4736	4754	3621
55°	3758	3770	3811	3824	3852	3365
65°	2677	2701	2733	2753	2753	2634
75°	1388	1448	1505	246	181	1469
85°	250	75	82	85	83	326
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6567.1	6567.1	6567.1	6567.1	6567.1
2.5°	6603.7	6572.9	6567.1	6540.8	6575.9
5°	6589.0	6559.8	6555.4	6529.1	6567.1
7.5°	6558.3	6534.9	6532.0	6504.2	6542.2
10°	6517.3	6495.4	6493.9	6469.1	6507.1
12.5°	6461.8	6442.7	6448.6	6423.7	6461.8
15°	6391.5	6379.8	6382.8	6365.2	6412.0
17.5°	6306.7	6300.8	6306.7	6293.5	6335.9
20°	6217.4	6210.1	6218.9	6211.6	6251.1
22.5°	6113.6	6104.8	6122.4	6112.1	6148.7
25°	5999.5	5992.2	6002.4	5999.5	6039.0
27.5°	5869.3	5862.0	5883.9	5885.4	5916.1
30°	5739.1	5728.8	5746.4	5753.7	5784.4
32.5°	5584.0	5581.1	5607.4	5613.3	5645.4
35°	5427.5	5418.7	5445.0	5464.0	5490.4
37.5°	5256.3	5254.8	5282.6	5298.7	5311.9
40°	5076.4	5069.0	5108.5	5124.6	5136.3
42.5°	4893.5	4877.4	4915.4	4935.9	4949.1
45°	4698.9	4672.6	4716.5	4735.5	4754.5
47.5°	4485.3	4461.9	4504.4	4524.8	4538.0
50°	4258.6	4236.6	4283.5	4301.0	4311.3
52.5°	4030.4	4008.4	4058.2	4072.8	4097.7
55°	3758.3	3770.0	3810.9	3824.1	3851.9
57.5°	3506.6	3516.9	3556.4	3572.5	3604.7
60°	3238.9	3255.0	3291.6	3307.7	3332.6
62.5°	2980.0	2981.4	3025.3	3032.7	3051.7
65°	2677.2	2700.6	2732.8	2753.2	2753.2
67.5°	2339.2	2396.3	2451.9	2447.5	2459.2
70°	2056.9	2078.8	2144.7	2154.9	2171.0
72.5°	1702.8	1759.9	1833.0	1369.3	465.2
75°	1388.3	1448.3	1505.4	245.8	181.4
77.5°	1078.2	1125.0	500.3	140.4	137.5
80°	749.0	823.6	125.8	128.7	133.1
82.5°	493.0	402.3	103.9	114.1	115.6
85°	250.2	74.6	81.9	84.8	83.4
87.5°	81.9	45.4	46.8	48.3	49.7
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)