

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: P730610

Luminaire Tested: **HBLED-LD5-18SE-W-A-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730610
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-LD5-18SE-W-A-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16743.0 lumens
Efficiency: N/A
Efficacy: 145.8 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

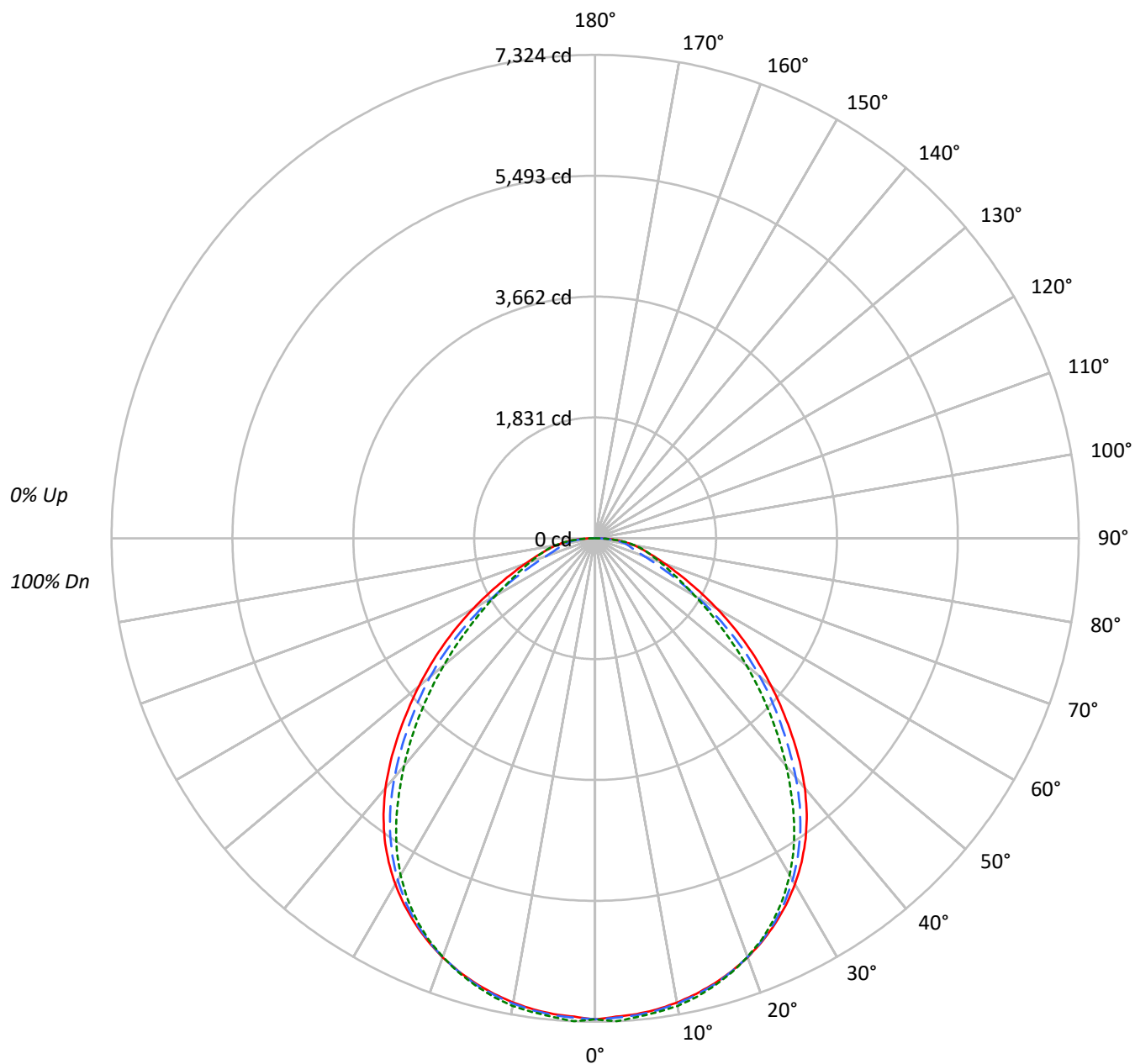
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11768	11768	11768
5°	11726	11753	11801
10°	11710	11737	11796
15°	11671	11694	11721
20°	11609	11601	11592
25°	11484	11444	11380
30°	11285	11149	10986
35°	10957	10682	10353
40°	10412	9965	9487
45°	9619	9082	8532
50°	8744	8178	7505
55°	7862	7080	6488
60°	6880	5786	5630
65°	5932	4550	5081
70°	5289	3714	4897
75°	5066	3625	5117
80°	5480	4287	5702
85°	6152	5163	6213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.8	4.1
10°-20°	1976.9	11.8
20°-30°	2957.3	17.7
30°-40°	3374.0	20.2
40°-50°	3071.3	18.3
50°-60°	2255.2	13.5
60°-70°	1331.6	8.0
70°-80°	763.1	4.6
80°-90°	322.7	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°	5625.0	33.6
0°-40°	8999.1	53.7
0°-60°	14325.6	85.6
0°-90°	16743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16743.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7288	7288	7288	7288	7288	
5°	7235	7280	7252	7280	7281	688
15°	6982	7020	6996	7020	7012	1970
25°	6446	6469	6424	6421	6388	2967
35°	5559	5532	5419	5326	5252	3464
45°	4213	4188	3978	3799	3737	3247
55°	2793	2664	2515	2333	2305	2498
65°	1553	1355	1191	1274	1330	1562
75°	812	696	581	758	820	875
85°	332	307	279	329	335	347
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7288.5	7288.5	7288.5	7288.5	7288.5
2.5°	7254.8	7296.7	7270.4	7299.2	7323.8
5°	7235.1	7280.3	7251.5	7280.3	7281.1
7.5°	7198.9	7240.8	7212.9	7244.1	7240.8
10°	7142.2	7184.1	7158.7	7192.4	7194.8
12.5°	7069.8	7110.1	7083.9	7122.5	7115.9
15°	6981.9	7020.5	6995.9	7020.5	7012.3
17.5°	6878.3	6913.7	6881.7	6908.8	6894.8
20°	6756.7	6786.3	6751.8	6777.2	6746.8
22.5°	6611.2	6637.5	6601.3	6615.3	6584.0
25°	6446.0	6469.0	6423.8	6421.3	6387.6
27.5°	6261.8	6274.2	6216.6	6196.9	6158.3
30°	6053.1	6056.4	5979.9	5943.0	5892.8
32.5°	5818.8	5810.6	5712.7	5657.7	5596.0
35°	5559.1	5531.9	5419.3	5326.5	5252.5
37.5°	5265.6	5222.9	5088.1	4950.8	4880.1
40°	4940.1	4890.0	4728.1	4557.9	4501.2
42.5°	4585.9	4543.1	4352.4	4174.8	4118.9
45°	4212.7	4188.0	3977.5	3799.2	3736.7
47.5°	3839.5	3821.4	3615.9	3434.2	3358.6
50°	3481.1	3441.6	3255.9	3056.9	2987.9
52.5°	3133.4	3052.8	2889.3	2685.4	2634.5
55°	2793.1	2664.1	2515.3	2332.8	2304.8
57.5°	2456.1	2289.2	2144.6	2008.1	2007.3
60°	2130.6	1939.9	1791.9	1720.4	1743.5
62.5°	1825.6	1630.0	1469.7	1474.6	1516.6
65°	1552.7	1355.4	1191.0	1274.1	1330.0
67.5°	1318.5	1130.2	963.4	1117.9	1171.3
70°	1120.4	950.2	786.7	979.8	1037.3
72.5°	953.5	810.5	663.4	864.7	923.1
75°	812.1	696.2	581.1	757.9	820.3
77.5°	697.1	594.3	521.2	655.9	720.9
80°	589.4	499.0	461.1	557.3	613.2
82.5°	466.9	404.4	382.2	452.9	481.7
85°	332.1	306.6	278.7	328.8	335.4
87.5°	182.5	189.1	156.1	189.1	189.8
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)