

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: P730618

Luminaire Tested: **HBLED-LD5-18SE-W-AI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-AI-UNV-L750
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17726.0 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

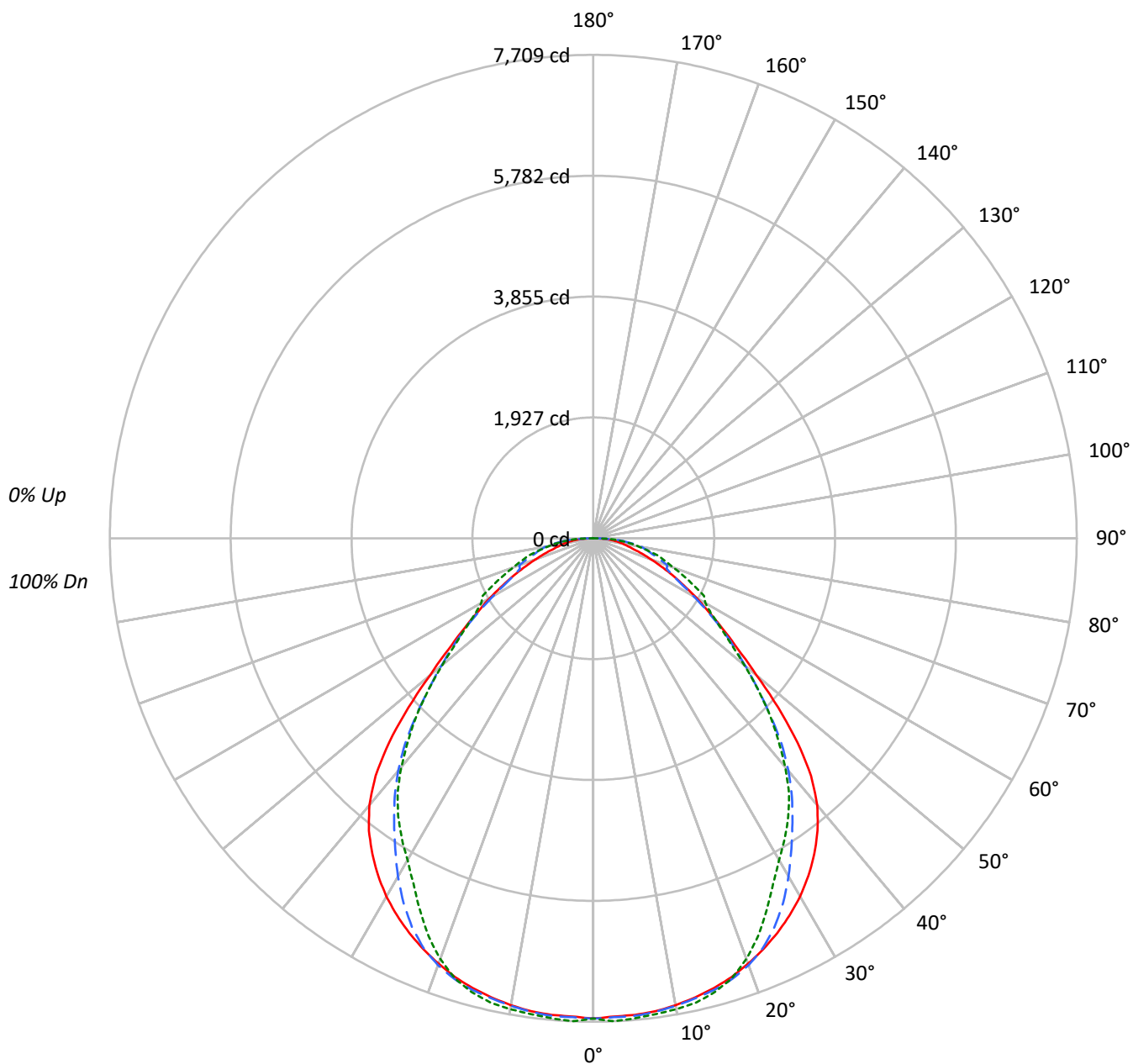
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12365	12365	12365
5°	12364	12391	12451
10°	12395	12410	12501
15°	12414	12460	12521
20°	12401	12448	12263
25°	12370	12185	11655
30°	12297	11610	11044
35°	12112	10912	10685
40°	11707	10203	10035
45°	10522	9110	9077
50°	8534	7935	7881
55°	7086	6955	6952
60°	6135	5956	6659
65°	5318	5284	6713
70°	4585	5928	6398
75°	4112	6075	6671
80°	4273	7152	6692
85°	4852	8242	7647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.2	4.1
10°-20°	2105.9	11.9
20°-30°	3127.7	17.6
30°-40°	3550.8	20.0
40°-50°	3174.2	17.9
50°-60°	2194.7	12.4
60°-70°	1448.2	8.2
70°-80°	977.0	5.5
80°-90°	418.5	2.4
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°	5962.7	33.6
0°-40°	9513.5	53.7
0°-60°	14882.4	84.0
0°-90°	17726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7658	7658	7658	7658	7658	
5°	7629	7676	7645	7676	7682	726
15°	7427	7462	7454	7496	7491	2096
25°	6944	7010	6840	6636	6542	3199
35°	6145	6016	5536	5456	5421	3832
45°	4608	4218	3990	4020	3975	3504
55°	2517	2298	2471	2436	2470	2287
65°	1392	1236	1383	1617	1757	1389
75°	659	829	974	1041	1069	720
85°	262	364	445	448	413	273
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7658.2	7658.2	7658.2	7658.2	7658.2
2.5°	7632.2	7679.9	7644.3	7677.3	7709.3
5°	7628.7	7675.5	7645.1	7676.4	7682.5
7.5°	7607.0	7650.3	7614.8	7645.1	7652.1
10°	7560.2	7611.4	7569.7	7616.5	7625.2
12.5°	7499.5	7551.5	7515.1	7579.2	7582.7
15°	7426.6	7462.2	7454.4	7496.0	7490.8
17.5°	7334.7	7375.5	7369.4	7379.8	7355.5
20°	7217.6	7263.6	7244.5	7196.8	7137.0
22.5°	7091.9	7147.4	7072.0	6951.4	6867.3
25°	6943.6	7009.5	6839.6	6635.8	6542.1
27.5°	6779.7	6838.7	6556.0	6306.2	6209.1
30°	6595.9	6621.0	6227.3	5989.7	5923.8
32.5°	6383.4	6347.0	5876.1	5719.1	5681.0
35°	6144.9	6015.7	5536.2	5455.5	5420.8
37.5°	5876.1	5639.4	5200.6	5163.3	5126.8
40°	5554.4	5204.9	4840.7	4816.4	4760.9
42.5°	5139.0	4732.3	4440.9	4412.3	4362.8
45°	4608.3	4218.0	3989.9	4020.3	3975.2
47.5°	3997.7	3702.1	3557.2	3640.5	3557.2
50°	3397.6	3199.1	3159.2	3234.7	3137.5
52.5°	2905.9	2727.3	2809.7	2822.7	2764.6
55°	2517.4	2298.1	2470.7	2435.9	2469.7
57.5°	2179.3	1933.8	2146.3	2106.4	2222.6
60°	1900.0	1624.3	1844.5	1835.8	2062.1
62.5°	1626.0	1405.7	1582.6	1710.1	1988.4
65°	1391.9	1235.7	1383.2	1617.3	1757.0
67.5°	1167.2	1108.3	1265.2	1395.3	1548.0
70°	971.2	1001.6	1255.7	1231.4	1355.4
72.5°	806.5	909.7	1108.3	1112.6	1200.2
75°	659.1	829.1	973.9	1040.7	1069.3
77.5°	548.1	751.9	879.4	902.8	875.0
80°	459.6	662.5	769.2	758.8	719.7
82.5°	371.1	502.1	606.2	615.7	569.7
85°	261.9	364.3	444.9	447.5	412.8
87.5°	140.5	224.6	269.7	277.5	256.7
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)