

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: P730620

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730620
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-L840
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: 16523.0 lumens
Efficiency: N/A
Efficacy: 143.9 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

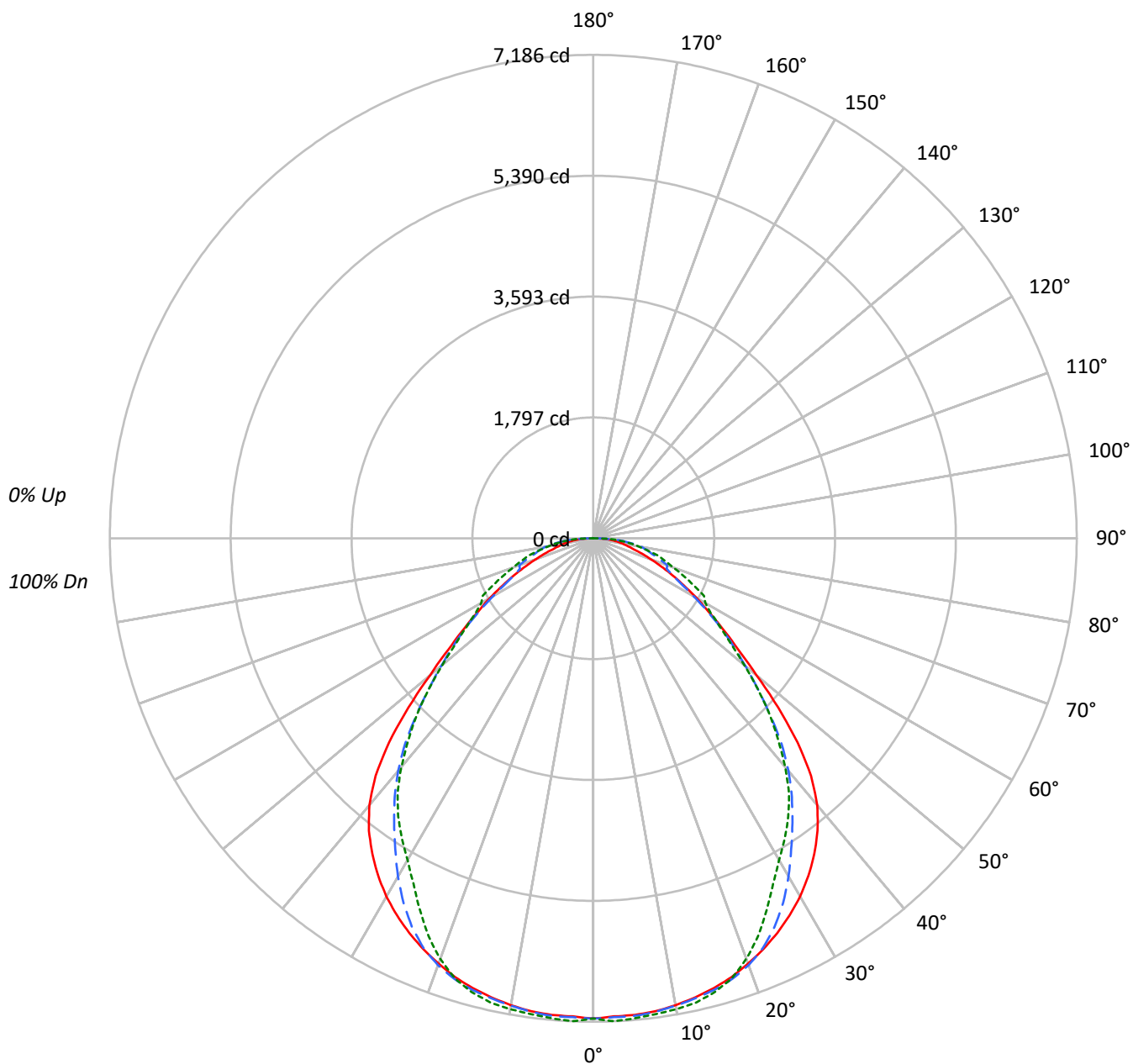
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730620

CATALOG NUMBER: HBLED-LD5-18SE-W-AI-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730620

CATALOG NUMBER: HBLED-LD5-18SE-W-AI-UNV-L840

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°	11526	11526	11526
5°	11525	11550	11606
10°	11554	11568	11653
15°	11571	11615	11671
20°	11560	11603	11431
25°	11530	11358	10864
30°	11462	10822	10294
35°	11290	10171	9960
40°	10912	9510	9354
45°	9808	8492	8461
50°	7955	7397	7346
55°	6606	6483	6480
60°	5719	5552	6207
65°	4957	4926	6257
70°	4274	5525	5964
75°	3832	5663	6218
80°	3983	6667	6238
85°	4522	7682	7129



TEST NUMBER: P730620

CATALOG NUMBER: HBLED-LD5-18SE-W-AI-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.7	4.1
10°-20°	1962.9	11.9
20°-30°	2915.4	17.6
30°-40°	3309.8	20.0
40°-50°	2958.8	17.9
50°-60°	2045.7	12.4
60°-70°	1349.9	8.2
70°-80°	910.7	5.5
80°-90°	390.1	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°	5558.0	33.6
0°-40°	8867.8	53.7
0°-60°	13872.3	84.0
0°-90°	16523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7138	7138	7138	7138	7138	
5°	7111	7155	7126	7155	7161	677
15°	6923	6956	6948	6987	6982	1954
25°	6472	6534	6375	6185	6098	2982
35°	5728	5607	5160	5085	5053	3572
45°	4296	3932	3719	3748	3705	3267
55°	2347	2142	2303	2271	2302	2131
65°	1297	1152	1289	1508	1638	1295
75°	614	773	908	970	997	671
85°	244	340	415	417	385	255
90°	0	0	0	0	0	



TEST NUMBER: P730620

CATALOG NUMBER: HBLED-LD5-18SE-W-AI-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7138.5	7138.5	7138.5	7138.5	7138.5
2.5°	7114.2	7158.7	7125.5	7156.2	7186.1
5°	7110.9	7154.6	7126.3	7155.4	7161.1
7.5°	7090.7	7131.1	7098.0	7126.3	7132.8
10°	7047.1	7094.8	7056.0	7099.6	7107.7
12.5°	6990.5	7039.0	7005.0	7064.9	7068.1
15°	6922.6	6955.8	6948.5	6987.3	6982.4
17.5°	6836.9	6875.0	6869.3	6878.9	6856.3
20°	6727.8	6770.6	6752.8	6708.4	6652.6
22.5°	6610.6	6662.3	6592.0	6479.7	6401.2
25°	6472.3	6533.8	6375.4	6185.4	6098.1
27.5°	6319.6	6374.5	6111.0	5878.3	5787.7
30°	6148.2	6171.6	5804.6	5583.2	5521.7
32.5°	5950.2	5916.2	5477.3	5331.0	5295.4
35°	5727.9	5607.4	5160.4	5085.3	5052.9
37.5°	5477.3	5256.7	4847.6	4812.9	4778.9
40°	5177.4	4851.6	4512.2	4489.5	4437.8
42.5°	4790.2	4411.1	4139.5	4112.8	4066.7
45°	4295.5	3931.7	3719.2	3747.5	3705.4
47.5°	3726.4	3450.8	3315.8	3393.4	3315.8
50°	3167.0	2982.0	2944.8	3015.1	2924.6
52.5°	2708.7	2542.2	2619.1	2631.1	2577.0
55°	2346.6	2142.1	2303.0	2270.6	2302.1
57.5°	2031.4	1802.6	2000.6	1963.5	2071.8
60°	1771.1	1514.0	1719.4	1711.3	1922.2
62.5°	1515.7	1310.3	1475.2	1594.0	1853.5
65°	1297.4	1151.9	1289.3	1507.6	1637.7
67.5°	1088.0	1033.0	1179.3	1300.6	1442.9
70°	905.3	933.6	1170.4	1147.8	1263.4
72.5°	751.8	848.0	1033.0	1037.1	1118.7
75°	614.3	772.8	907.8	970.0	996.7
77.5°	510.9	700.8	819.7	841.5	815.6
80°	428.4	617.5	717.0	707.3	670.9
82.5°	345.9	468.1	565.1	574.0	531.1
85°	244.1	339.5	414.7	417.1	384.8
87.5°	130.9	209.4	251.4	258.7	239.3
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)