

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: P730651

Luminaire Tested: **HBLED-LD5-18SE-W-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730651
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-L850
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19100.0 lumens
Efficiency: N/A
Efficacy: 166.4 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

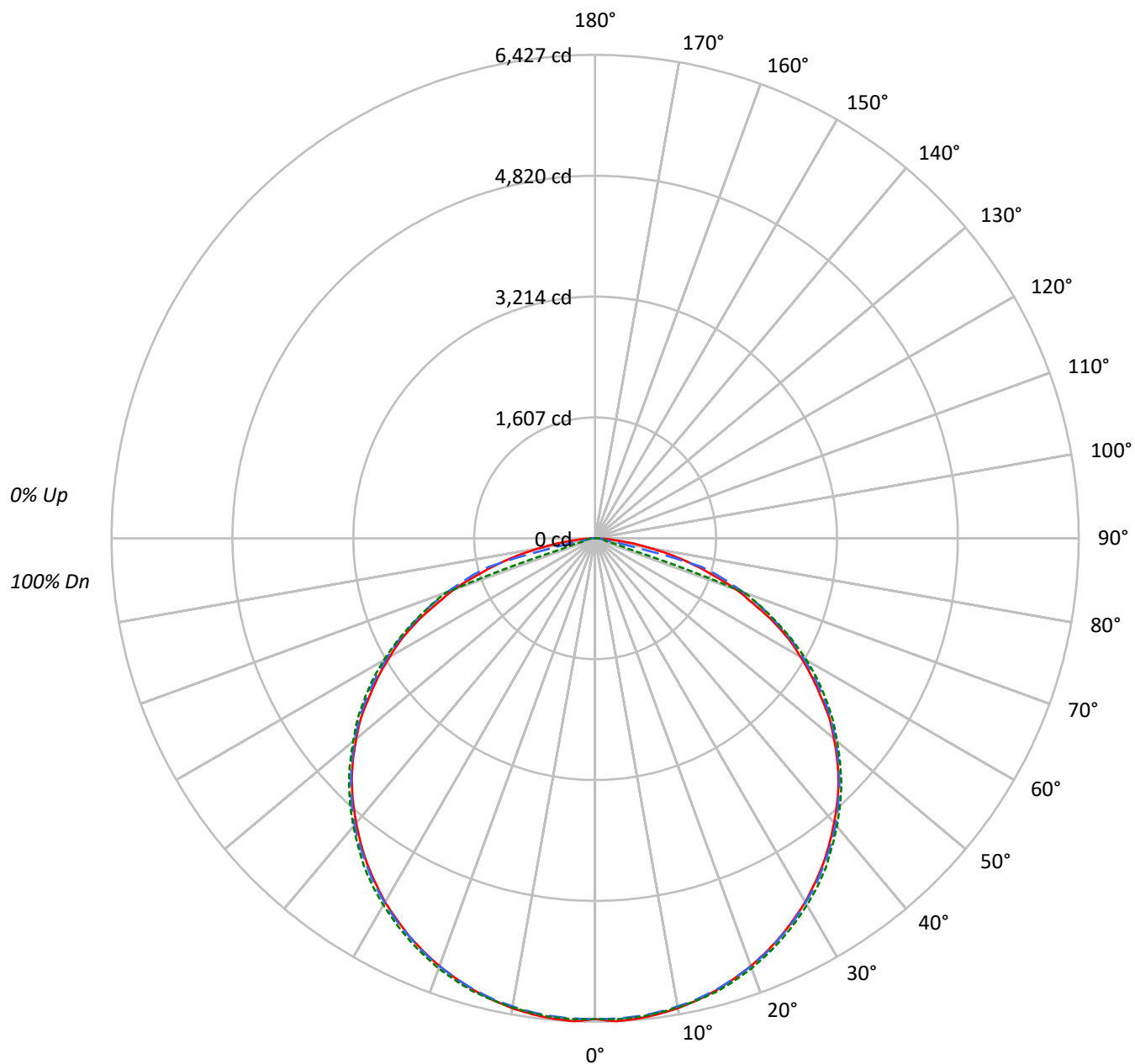
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730651

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730651

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L850

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°	10319	10319	10319
5°	10394	10340	10359
10°	10399	10362	10383
15°	10398	10384	10431
20°	10397	10399	10453
25°	10402	10407	10471
30°	10413	10427	10496
35°	10412	10445	10532
40°	10413	10479	10536
45°	10442	10481	10566
50°	10411	10472	10539
55°	10296	10441	10553
60°	10179	10345	10474
65°	9954	10161	10237
70°	9450	9854	9974
75°	8429	9140	1102
80°	6778	1138	1205
85°	4511	1476	1504



TEST NUMBER: P730651

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.0	3.2
10°-20°	1754.1	9.2
20°-30°	2695.0	14.1
30°-40°	3317.6	17.4
40°-50°	3536.9	18.5
50°-60°	3306.3	17.3
60°-70°	2617.4	13.7
70°-80°	1113.6	5.8
80°-90°	152.1	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°	5056.1	26.5
0°-40°	8373.7	43.8
0°-60°	15217.0	79.7
0°-90°	19100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6391	6391	6391	6391	6391	
5°	6413	6384	6380	6354	6391	610
15°	6221	6209	6212	6195	6240	1756
25°	5839	5832	5842	5839	5877	2692
35°	5282	5274	5299	5318	5344	3305
45°	4573	4548	4590	4609	4627	3524
55°	3658	3669	3709	3722	3749	3275
65°	2606	2628	2660	2680	2680	2563
75°	1351	1410	1465	239	177	1429
85°	244	73	80	83	81	317
90°	0	0	0	0	0	



TEST NUMBER: P730651

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6391.4	6391.4	6391.4	6391.4	6391.4
2.5°	6427.0	6397.1	6391.4	6365.8	6399.9
5°	6412.8	6384.3	6380.0	6354.4	6391.4
7.5°	6382.9	6360.1	6357.2	6330.2	6367.2
10°	6343.0	6321.6	6320.2	6296.0	6333.0
12.5°	6288.9	6270.4	6276.1	6251.9	6288.9
15°	6220.6	6209.2	6212.0	6194.9	6240.5
17.5°	6138.0	6132.3	6138.0	6125.2	6166.4
20°	6051.1	6044.0	6052.5	6045.4	6083.9
22.5°	5950.0	5941.5	5958.6	5948.6	5984.2
25°	5839.0	5831.9	5841.8	5839.0	5877.4
27.5°	5712.3	5705.1	5726.5	5727.9	5757.8
30°	5585.5	5575.6	5592.7	5599.8	5629.7
32.5°	5434.6	5431.8	5457.4	5463.1	5494.4
35°	5282.3	5273.7	5299.4	5317.9	5343.5
37.5°	5115.7	5114.3	5141.3	5157.0	5169.8
40°	4940.6	4933.4	4971.9	4987.5	4998.9
42.5°	4762.6	4746.9	4783.9	4803.9	4816.7
45°	4573.2	4547.6	4590.3	4608.8	4627.3
47.5°	4365.3	4342.6	4383.9	4403.8	4416.6
50°	4144.7	4123.3	4168.9	4186.0	4195.9
52.5°	3922.5	3901.2	3949.6	3963.8	3988.0
55°	3657.7	3669.1	3709.0	3721.8	3748.8
57.5°	3412.8	3422.8	3461.2	3476.9	3508.2
60°	3152.3	3167.9	3203.5	3219.2	3243.4
62.5°	2900.3	2901.7	2944.4	2951.5	2970.0
65°	2605.5	2628.3	2659.6	2679.6	2679.6
67.5°	2276.6	2332.2	2386.3	2382.0	2393.4
70°	2001.9	2023.2	2087.3	2097.2	2112.9
72.5°	1657.3	1712.8	1784.0	1332.7	452.8
75°	1351.2	1409.6	1465.1	239.2	176.6
77.5°	1049.3	1094.9	486.9	136.7	133.8
80°	729.0	801.6	122.4	125.3	129.6
82.5°	479.8	391.5	101.1	111.1	112.5
85°	243.5	72.6	79.7	82.6	81.2
87.5°	79.7	44.1	45.6	47.0	48.4
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)