

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: P730649

Luminaire Tested: **HBLED-LD5-18SE-W-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730649
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-L835
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18208.0 lumens
Efficiency: N/A
Efficacy: 158.6 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

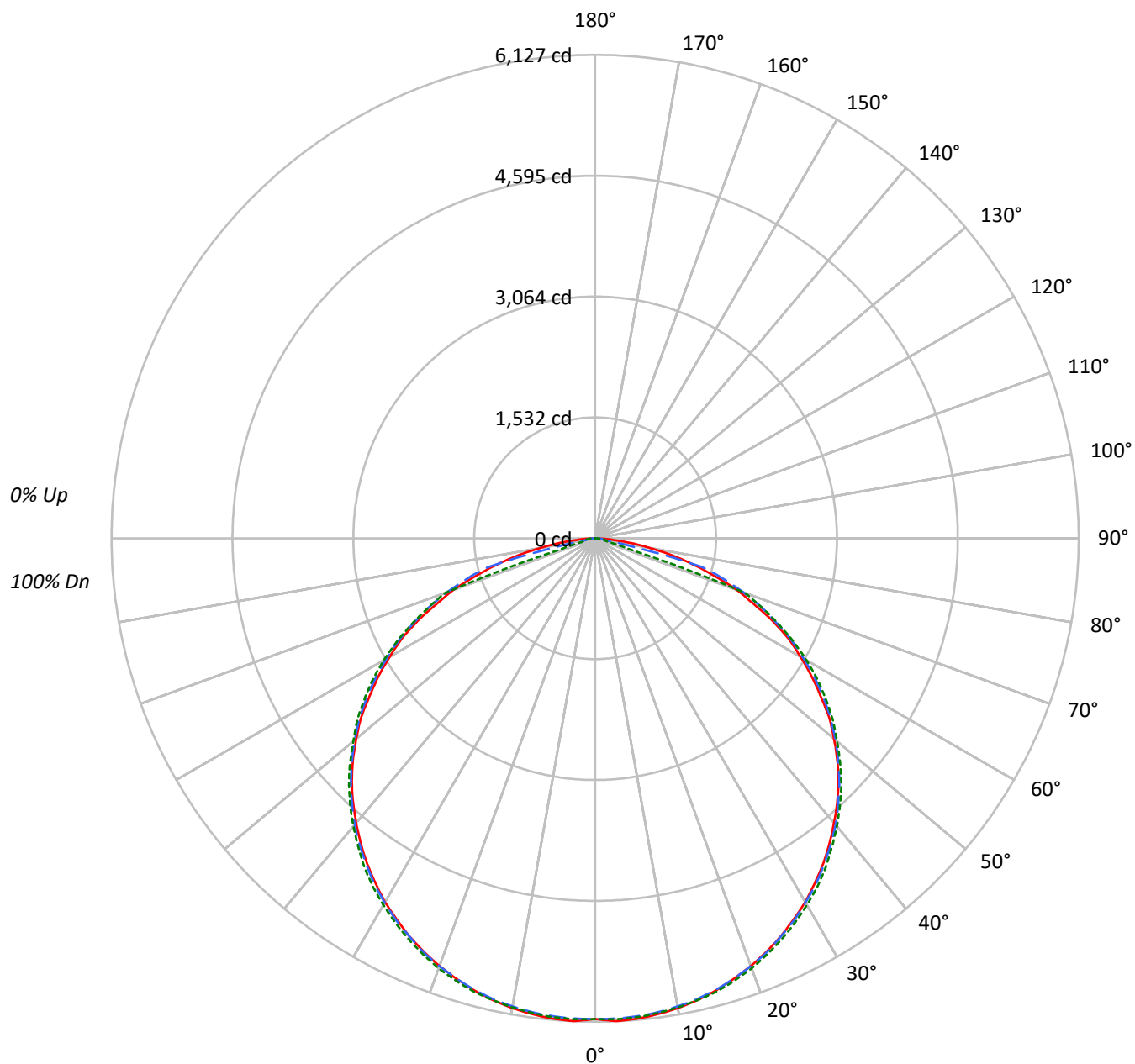
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730649

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P730649

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L835

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9838	9838	9838
5°	9908	9858	9875
10°	9914	9878	9898
15°	9912	9899	9944
20°	9911	9914	9965
25°	9916	9921	9982
30°	9927	9940	10006
35°	9925	9958	10040
40°	9927	9990	10044
45°	9955	9992	10072
50°	9925	9983	10047
55°	9815	9953	10060
60°	9704	9862	9984
65°	9490	9686	9759
70°	9009	9393	9509
75°	8036	8713	1050
80°	6461	1085	1148
85°	4300	1408	1434



TEST NUMBER: P730649

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.7	3.2
10°-20°	1672.1	9.2
20°-30°	2569.1	14.1
30°-40°	3162.7	17.4
40°-50°	3371.7	18.5
50°-60°	3151.9	17.3
60°-70°	2495.1	13.7
70°-80°	1061.6	5.8
80°-90°	145.0	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°	4820.0	26.5
0°-40°	7982.7	43.8
0°-60°	14506.3	79.7
0°-90°	18208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6093	6093	6093	6093	6093	
5°	6113	6086	6082	6058	6093	581
15°	5930	5919	5922	5906	5949	1674
25°	5566	5560	5569	5566	5603	2566
35°	5036	5027	5052	5070	5094	3151
45°	4360	4335	4376	4394	4411	3359
55°	3487	3498	3536	3548	3574	3122
65°	2484	2506	2535	2554	2554	2444
75°	1288	1344	1397	228	168	1363
85°	232	69	76	79	77	303
90°	0	0	0	0	0	



TEST NUMBER: P730649

CATALOG NUMBER: HBLED-LD5-18SE-W-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6092.9	6092.9	6092.9	6092.9	6092.9
2.5°	6126.8	6098.3	6092.9	6068.5	6101.1
5°	6113.3	6086.1	6082.1	6057.6	6092.9
7.5°	6084.8	6063.1	6060.3	6034.6	6069.8
10°	6046.8	6026.4	6025.1	6002.0	6037.3
12.5°	5995.2	5977.5	5983.0	5959.9	5995.2
15°	5930.0	5919.2	5921.9	5905.6	5949.0
17.5°	5851.3	5845.9	5851.3	5839.1	5878.5
20°	5768.5	5761.7	5769.9	5763.1	5799.7
22.5°	5672.2	5664.0	5680.3	5670.8	5704.7
25°	5566.3	5559.5	5569.0	5566.3	5602.9
27.5°	5445.5	5438.7	5459.1	5460.4	5488.9
30°	5324.7	5315.2	5331.5	5338.3	5366.8
32.5°	5180.8	5178.1	5202.5	5208.0	5237.8
35°	5035.6	5027.4	5051.9	5069.5	5093.9
37.5°	4876.8	4875.4	4901.2	4916.1	4928.4
40°	4709.8	4703.0	4739.7	4754.6	4765.5
42.5°	4540.2	4525.2	4560.5	4579.5	4591.7
45°	4359.6	4335.2	4375.9	4393.6	4411.2
47.5°	4161.5	4139.8	4179.1	4198.1	4210.3
50°	3951.1	3930.7	3974.2	3990.5	4000.0
52.5°	3739.4	3719.0	3765.1	3778.7	3801.8
55°	3486.9	3497.8	3535.8	3548.0	3573.8
57.5°	3253.4	3262.9	3299.6	3314.5	3344.4
60°	3005.1	3020.0	3053.9	3068.9	3091.9
62.5°	2764.8	2766.2	2806.9	2813.7	2831.3
65°	2483.9	2505.6	2535.4	2554.4	2554.4
67.5°	2170.3	2223.3	2274.8	2270.8	2281.6
70°	1908.4	1928.7	1989.8	1999.3	2014.2
72.5°	1579.9	1632.8	1700.7	1270.4	431.6
75°	1288.1	1343.7	1396.7	228.0	168.3
77.5°	1000.3	1043.8	464.2	130.3	127.6
80°	694.9	764.2	116.7	119.4	123.5
82.5°	457.4	373.3	96.4	105.9	107.2
85°	232.1	69.2	76.0	78.7	77.4
87.5°	76.0	42.1	43.4	44.8	46.1
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)