

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: P730653

Luminaire Tested: **HBLED-LD5-18SE-W-WG-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-WG-UNV-L740
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18586.0 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

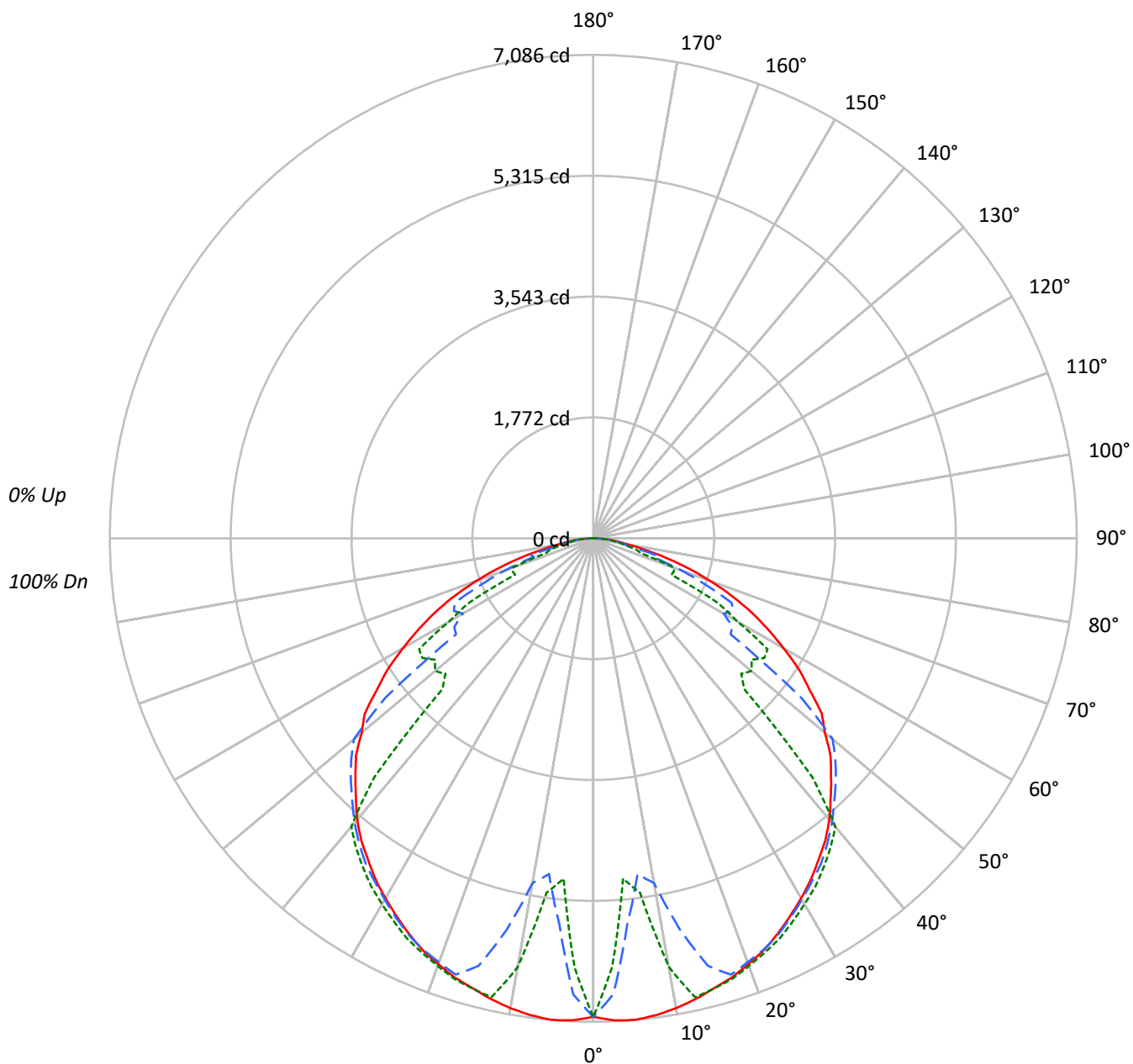
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730653

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730653

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L740

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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11327	11327	11327
5°	11485	9226	8114
10°	11465	8414	10465
15°	11414	10845	11424
20°	11414	11363	11463
25°	11394	11419	11524
30°	11361	11398	11545
35°	11343	11469	11603
40°	11344	11468	11633
45°	11255	11476	7131
50°	11128	11499	7601
55°	10893	6914	8614
60°	10391	7127	7888
65°	9736	8557	4826
70°	8597	6483	5917
75°	6850	5893	4103
80°	4719	4259	3526
85°	4522	3931	3729



TEST NUMBER: P730653

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.0	3.0
10°-20°	1757.5	9.5
20°-30°	2891.5	15.6
30°-40°	3635.7	19.6
40°-50°	3565.7	19.2
50°-60°	2954.4	15.9
60°-70°	2083.8	11.2
70°-80°	909.1	4.9
80°-90°	227.1	1.2
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°	5210.1	28.0
0°-40°	8845.8	47.6
0°-60°	15365.9	82.7
0°-90°	18586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7016	7016	7016	7016	7016	
5°	7086	6595	5693	5162	5006	673
15°	6828	4742	6488	6855	6834	1931
25°	6396	5852	6410	6453	6469	2948
35°	5755	5751	5818	5857	5886	3606
45°	4929	4944	5026	4451	3123	3805
55°	3870	3996	2456	2793	3060	3462
65°	2548	2699	2240	1723	1263	2506
75°	1098	1076	945	617	658	1178
85°	244	217	212	203	201	253
90°	0	0	0	0	0	



TEST NUMBER: P730653

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7015.6	7015.6	7015.6	7015.6	7015.6
2.5°	7073.5	6926.7	6693.5	6399.9	6295.9
5°	7086.1	6595.3	5692.7	5161.7	5006.5
7.5°	7050.0	5993.8	4962.9	5074.4	5238.8
10°	6993.0	5465.4	5132.3	6038.3	6383.1
12.5°	6920.0	4995.6	5879.7	6821.0	6889.7
15°	6828.5	4742.3	6488.0	6855.4	6834.4
17.5°	6751.3	4890.7	6706.1	6786.6	6771.5
20°	6643.1	5186.9	6613.0	6677.5	6671.6
22.5°	6534.1	5537.5	6524.8	6571.0	6571.0
25°	6395.7	5852.1	6409.9	6452.7	6468.7
27.5°	6243.8	6033.2	6266.4	6301.7	6330.2
30°	6093.6	6059.3	6113.8	6159.1	6192.6
32.5°	5935.1	5921.7	5964.5	6012.3	6055.1
35°	5754.7	5751.4	5818.5	5857.1	5886.5
37.5°	5585.3	5573.6	5635.6	5689.3	5712.0
40°	5382.3	5382.3	5441.0	5495.5	5519.1
42.5°	5150.7	5183.5	5228.8	5285.0	4759.8
45°	4929.3	4944.4	5025.7	4451.2	3123.2
47.5°	4716.2	4735.5	4812.7	2861.4	2939.5
50°	4430.2	4517.4	4577.8	2853.1	3025.9
52.5°	4221.3	4259.0	3842.9	2824.6	2921.8
55°	3869.8	3996.4	2456.2	2792.7	3060.2
57.5°	3569.5	3661.8	2415.2	2861.4	3027.5
60°	3218.0	3358.9	2207.1	2760.8	2442.8
62.5°	2880.7	3014.9	2304.4	2172.7	2068.7
65°	2548.5	2698.7	2239.8	1723.1	1263.3
67.5°	2184.4	2044.4	1786.8	1213.9	1277.6
70°	1821.2	1427.8	1373.3	1357.3	1253.3
72.5°	1447.9	1041.9	911.8	1018.4	729.0
75°	1098.1	1076.3	944.6	617.4	657.7
77.5°	761.7	776.8	505.8	602.3	499.9
80°	507.5	439.6	458.0	384.2	379.2
82.5°	351.5	359.0	301.1	291.9	296.2
85°	244.1	217.3	212.2	203.1	201.3
87.5°	81.3	94.8	88.1	79.7	84.8
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)