

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: P730654

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730654
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-L750
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19033.0 lumens
Efficiency: N/A
Efficacy: 165.8 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

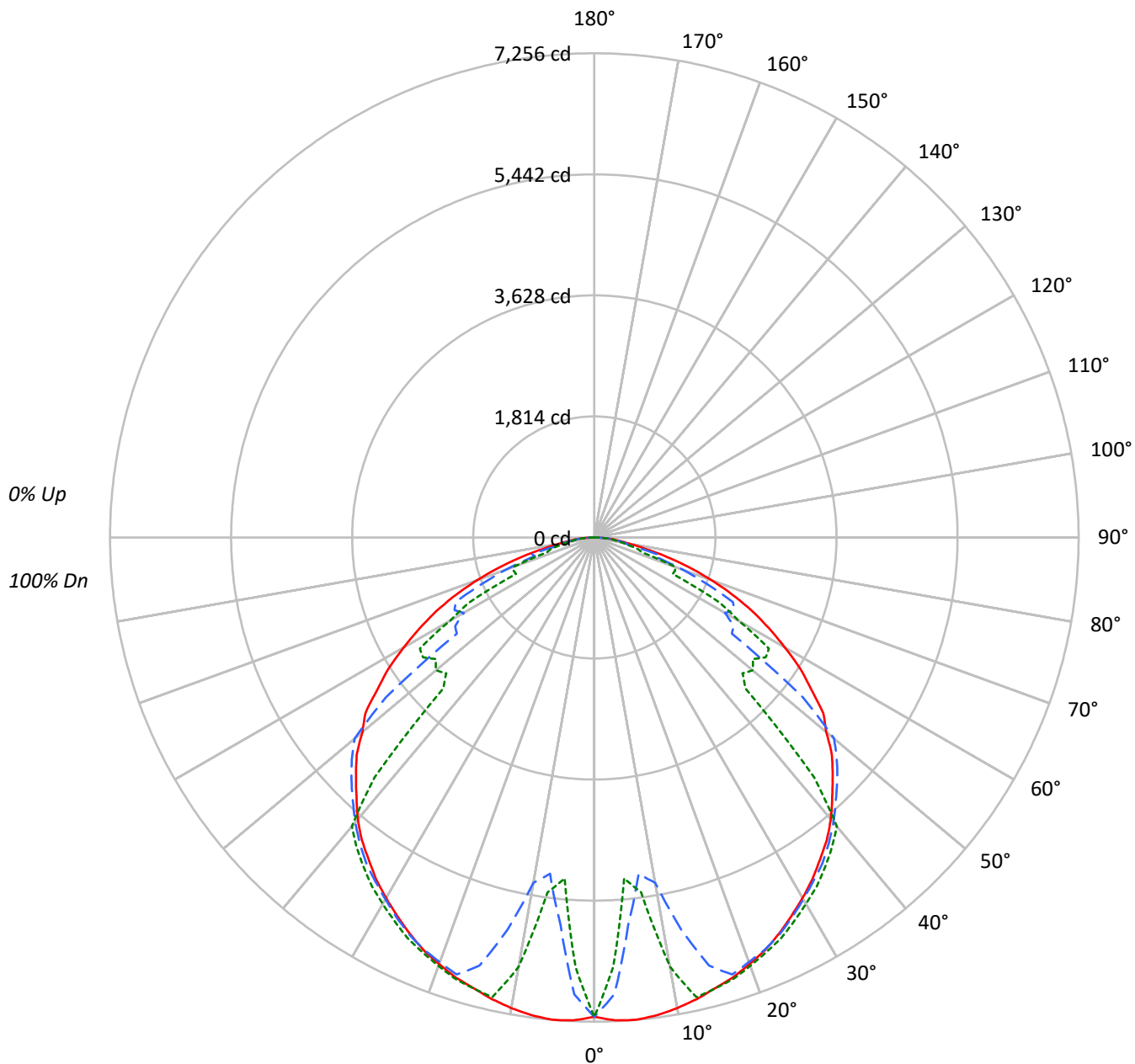
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730654

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P730654

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L750

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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11600	11600	11600
5°	11761	9448	8309
10°	11741	8617	10717
15°	11689	11106	11699
20°	11689	11636	11739
25°	11668	11694	11801
30°	11634	11673	11823
35°	11616	11744	11882
40°	11617	11744	11912
45°	11526	11752	7303
50°	11396	11775	7783
55°	11155	7080	8821
60°	10641	7299	8078
65°	9971	8763	4943
70°	8804	6639	6059
75°	7016	6034	4201
80°	4833	4361	3610
85°	4631	4026	3820



TEST NUMBER: P730654

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.5	3.0
10°-20°	1799.8	9.5
20°-30°	2961.1	15.6
30°-40°	3723.2	19.6
40°-50°	3651.5	19.2
50°-60°	3025.4	15.9
60°-70°	2133.9	11.2
70°-80°	931.0	4.9
80°-90°	232.6	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°	5335.4	28.0
0°-40°	9058.5	47.6
0°-60°	15735.5	82.7
0°-90°	19033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7184	7184	7184	7184	7184	
5°	7256	6754	5830	5286	5127	689
15°	6993	4856	6644	7020	6999	1977
25°	6550	5993	6564	6608	6624	3019
35°	5893	5890	5958	5998	6028	3692
45°	5048	5063	5147	4558	3198	3896
55°	3963	4092	2515	2860	3134	3546
65°	2610	2764	2294	1764	1294	2566
75°	1125	1102	967	632	674	1206
85°	250	222	217	208	206	259
90°	0	0	0	0	0	



TEST NUMBER: P730654

CATALOG NUMBER: HBLED-LD5-18SE-W-WG-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7184.4	7184.4	7184.4	7184.4	7184.4
2.5°	7243.6	7093.3	6854.5	6553.8	6447.3
5°	7256.5	6753.9	5829.6	5285.8	5126.9
7.5°	7219.6	6138.0	5082.2	5196.4	5364.8
10°	7161.2	5596.8	5255.8	6183.5	6536.6
12.5°	7086.4	5115.7	6021.1	6985.0	7055.4
15°	6992.7	4856.3	6644.0	7020.3	6998.8
17.5°	6913.7	5008.3	6867.3	6949.8	6934.3
20°	6802.9	5311.6	6772.0	6838.1	6832.1
22.5°	6691.2	5670.6	6681.8	6729.1	6729.1
25°	6549.5	5992.8	6564.1	6607.9	6624.3
27.5°	6394.0	6178.3	6417.2	6453.2	6482.4
30°	6240.2	6205.0	6260.9	6307.2	6341.6
32.5°	6077.9	6064.2	6107.9	6156.9	6200.7
35°	5893.1	5889.7	5958.4	5997.9	6028.1
37.5°	5719.6	5707.6	5771.2	5826.2	5849.4
40°	5511.8	5511.8	5571.9	5627.7	5651.8
42.5°	5274.6	5308.2	5354.5	5412.1	4874.3
45°	5047.8	5063.3	5146.6	4558.2	3198.3
47.5°	4829.6	4849.4	4928.5	2930.2	3010.2
50°	4536.7	4626.0	4687.9	2921.7	3098.7
52.5°	4322.8	4361.4	3935.3	2892.5	2992.1
55°	3962.9	4092.5	2515.3	2859.8	3133.8
57.5°	3655.3	3749.8	2473.3	2930.2	3100.3
60°	3295.4	3439.7	2260.2	2827.2	2501.6
62.5°	2950.0	3087.5	2359.8	2225.0	2118.4
65°	2609.8	2763.6	2293.7	1764.5	1293.7
67.5°	2237.0	2093.6	1829.8	1243.1	1308.4
70°	1865.0	1462.2	1406.3	1390.0	1283.4
72.5°	1482.7	1067.0	933.8	1042.9	746.5
75°	1124.6	1102.2	967.3	632.3	673.5
77.5°	780.0	795.5	518.0	616.8	512.0
80°	519.8	450.2	469.0	393.4	388.3
82.5°	360.0	367.7	308.4	298.9	303.3
85°	250.0	222.5	217.3	207.9	206.2
87.5°	83.3	97.1	90.2	81.6	86.8
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)