

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: P730633

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CL-WG-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16942.0 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

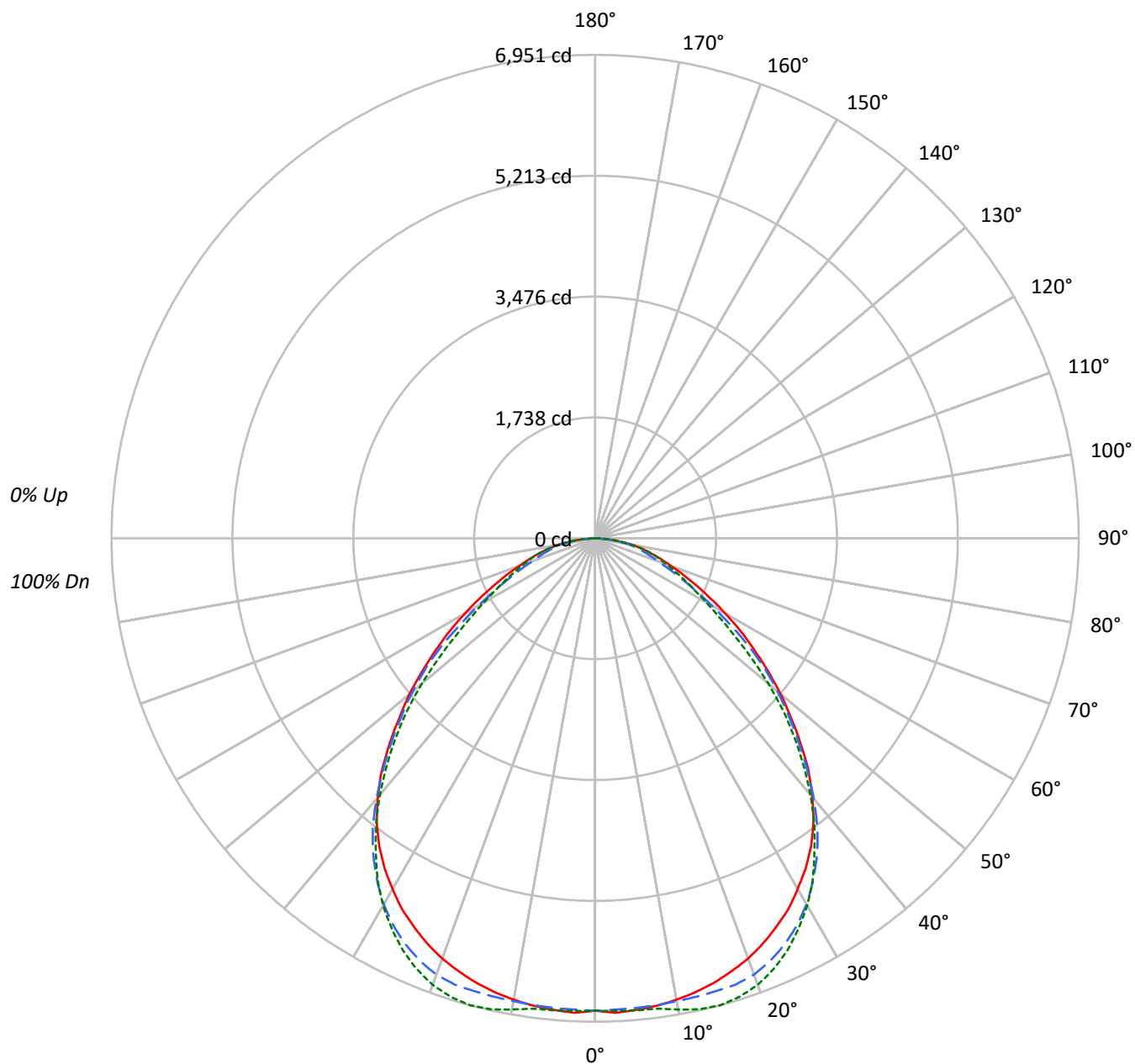
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10968	10968	10968
5°	11033	10987	11042
10°	11043	11080	11278
15°	11057	11264	11619
20°	11049	11471	11738
25°	10982	11481	11650
30°	10855	11329	11365
35°	10661	10962	10831
40°	10241	10304	10141
45°	9542	9442	9250
50°	8736	8596	8155
55°	7847	7556	6895
60°	6960	6252	5952
65°	6132	5195	5402
70°	5484	4508	5145
75°	5137	4383	5203
80°	5001	4431	4952
85°	3992	3507	3635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.1	3.8
10°-20°	1906.2	11.3
20°-30°	2932.4	17.3
30°-40°	3422.3	20.2
40°-50°	3180.2	18.8
50°-60°	2357.3	13.9
60°-70°	1441.0	8.5
70°-80°	820.8	4.8
80°-90°	234.7	1.4
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°	5485.7	32.4
0°-40°	8907.9	52.6
0°-60°	14445.4	85.3
0°-90°	16942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6793	6793	6793	6793	6793	
5°	6807	6776	6779	6774	6813	648
15°	6615	6611	6739	6872	6951	1867
25°	6164	6212	6445	6499	6539	2840
35°	5409	5451	5561	5516	5495	3370
45°	4179	4204	4135	4070	4051	3220
55°	2788	2718	2684	2493	2450	2502
65°	1605	1458	1360	1396	1414	1606
75°	824	773	703	801	834	881
85°	216	210	189	196	196	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6793.3	6793.3	6793.3	6793.3	6793.3
2.5°	6830.1	6791.5	6784.5	6768.7	6803.7
5°	6807.3	6775.7	6779.2	6774.0	6812.6
7.5°	6781.0	6758.2	6772.2	6770.4	6821.3
10°	6735.5	6723.2	6758.2	6796.8	6879.1
12.5°	6684.6	6672.4	6749.5	6847.5	6936.9
15°	6614.6	6611.0	6738.9	6872.1	6951.0
17.5°	6526.9	6532.2	6726.6	6840.6	6910.6
20°	6430.6	6439.3	6675.9	6768.7	6831.8
22.5°	6306.2	6336.0	6577.7	6654.8	6703.9
25°	6164.2	6211.5	6444.6	6498.9	6539.2
27.5°	6011.8	6059.1	6279.8	6307.9	6330.7
30°	5822.5	5889.1	6076.6	6080.1	6095.8
32.5°	5629.8	5689.4	5833.1	5817.3	5820.7
35°	5409.0	5451.1	5561.4	5515.9	5494.9
37.5°	5155.0	5177.7	5247.8	5179.5	5175.9
40°	4858.8	4888.6	4888.6	4794.0	4811.5
42.5°	4543.5	4553.9	4510.2	4420.8	4434.8
45°	4179.0	4203.5	4135.1	4070.3	4051.1
47.5°	3818.0	3842.5	3770.7	3695.4	3662.1
50°	3478.1	3465.8	3422.1	3294.1	3246.8
52.5°	3125.9	3087.4	3069.9	2882.4	2828.1
55°	2787.7	2717.7	2684.4	2493.3	2449.5
57.5°	2474.1	2348.0	2284.9	2136.0	2118.4
60°	2155.2	2013.3	1936.2	1839.8	1843.3
62.5°	1866.1	1717.1	1624.3	1596.3	1608.5
65°	1605.0	1457.8	1359.7	1396.5	1414.0
67.5°	1368.5	1247.6	1137.2	1223.0	1240.5
70°	1161.7	1065.3	955.0	1081.1	1089.9
72.5°	990.0	911.2	818.3	937.4	956.7
75°	823.5	772.8	702.6	800.8	834.1
77.5°	678.1	637.8	597.5	657.1	693.9
80°	537.9	497.6	476.6	508.1	532.6
82.5°	380.2	354.0	332.9	355.7	368.0
85°	215.5	210.2	189.3	196.2	196.2
87.5°	49.1	56.0	63.1	57.8	49.1
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)