

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: P730597

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-WG-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH NARROW 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 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

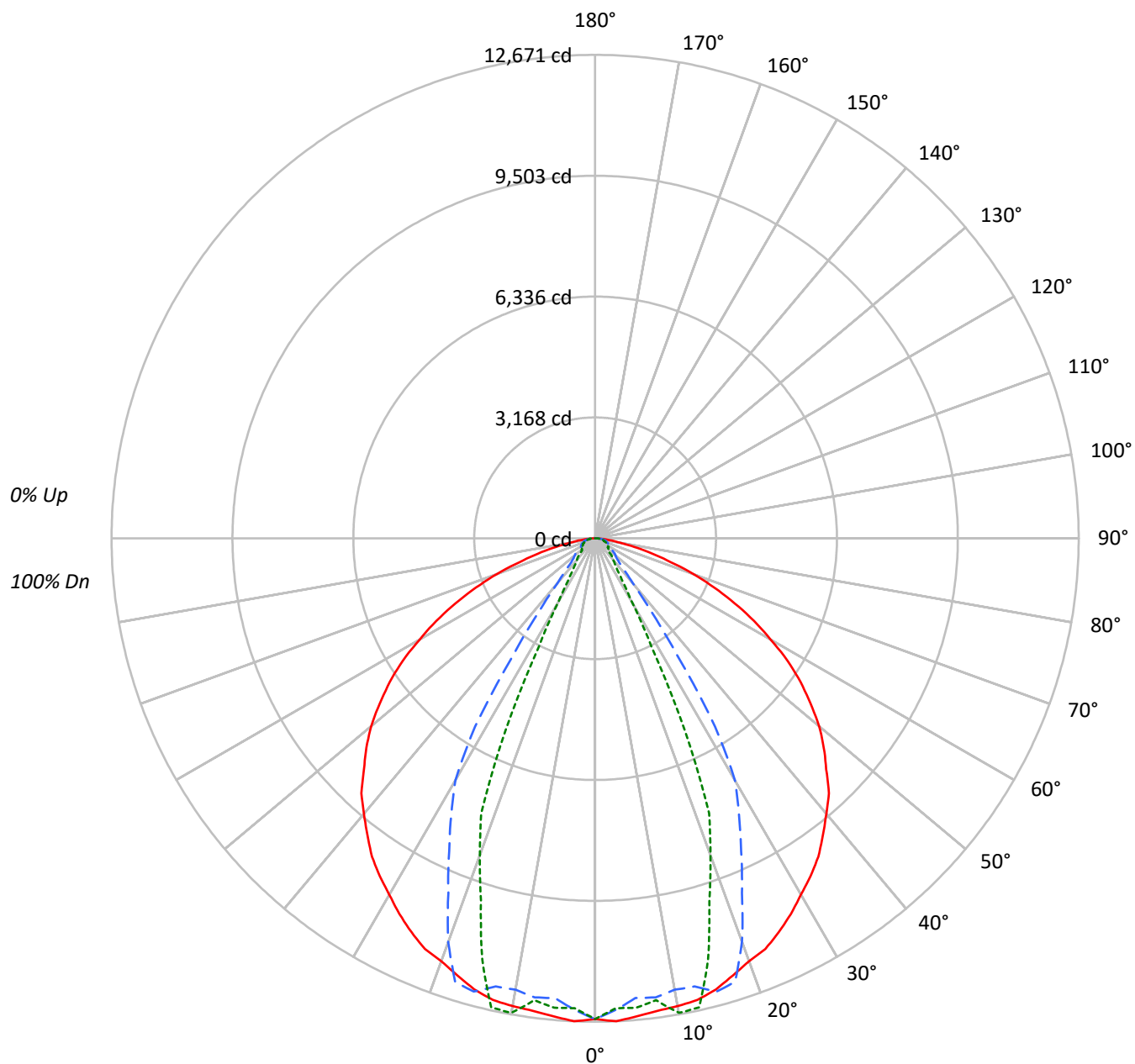
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20348	20348	20348
5°	20381	19605	20018
10°	20411	19699	20710
15°	20456	20563	19112
20°	20263	19340	15170
25°	20292	16123	9909
30°	20110	13659	3560
35°	20089	7399	2002
40°	19861	3226	1568
45°	19554	1994	1230
50°	19250	1737	1161
55°	18493	1506	1136
60°	17158	1349	1220
65°	15423	1525	1334
70°	12934	1640	1375
75°	9669	1870	1489
80°	6073	2172	1698
85°	4044	2721	2486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1168.1	6.9
10°-20°	3298.3	19.5
20°-30°	4038.9	23.8
30°-40°	3171.8	18.7
40°-50°	2352.1	13.9
50°-60°	1431.9	8.5
60°-70°	857.7	5.1
70°-80°	470.6	2.8
80°-90°	152.6	0.9
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°	8505.3	50.2
0°-40°	11677.1	68.9
0°-60°	15461.1	91.3
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°	12602	12602	12602	12602	12602	
5°	12575	12233	12096	12230	12351	###
15°	12238	11902	12302	11805	11434	3446
25°	11390	11426	9050	7099	5562	5243
35°	10192	9271	3754	1256	1016	6360
45°	8564	6149	873	662	538	6622
55°	6570	1694	535	453	403	5846
65°	4037	499	399	375	349	3988
75°	1550	315	300	261	239	1678
85°	218	172	147	135	134	266
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12602.3	12602.3	12602.3	12602.3	12602.3
2.5°	12671.1	12500.4	12369.6	12296.6	12326.2
5°	12575.1	12232.8	12096.1	12229.5	12350.9
7.5°	12491.9	11983.2	12137.7	12149.6	12213.3
10°	12449.4	11959.4	12015.4	12279.5	12632.0
12.5°	12393.4	12014.6	12034.1	12394.2	12592.9
15°	12238.0	11902.5	12301.6	11804.8	11433.6
17.5°	12011.2	11640.9	12189.5	10457.8	9953.3
20°	11792.9	11356.3	11256.1	9315.4	8828.7
22.5°	11651.9	11313.0	10055.2	8300.4	7797.6
25°	11390.3	11426.0	9050.5	7098.6	5562.3
27.5°	11102.4	11160.2	8162.1	4734.2	3186.7
30°	10786.4	10852.7	7326.3	2797.6	1909.3
32.5°	10500.2	10126.5	5851.0	1745.4	1327.5
35°	10191.9	9271.2	3754.0	1256.2	1015.8
37.5°	9803.8	8372.6	2376.4	993.7	852.8
40°	9423.3	7565.8	1530.5	848.5	744.0
42.5°	9067.4	6900.8	1113.5	741.5	671.9
45°	8563.8	6149.1	873.1	661.6	538.5
47.5°	8128.1	5267.6	763.5	559.7	464.6
50°	7663.5	4027.5	691.4	497.7	462.1
52.5°	7112.2	2634.6	638.7	476.5	431.4
55°	6569.6	1694.4	535.0	452.7	403.4
57.5°	5983.5	1074.4	472.3	439.1	421.2
60°	5313.4	724.5	417.9	416.1	377.9
62.5°	4693.3	595.4	403.4	399.2	357.6
65°	4036.9	499.4	399.2	375.4	349.1
67.5°	3381.2	428.1	361.0	343.1	320.2
70°	2739.9	391.6	347.4	339.7	291.3
72.5°	2080.8	322.7	308.3	287.9	242.1
75°	1550.0	315.1	299.8	260.7	238.7
77.5°	1048.9	290.5	272.7	233.6	215.8
80°	653.2	266.7	233.6	204.7	182.6
82.5°	388.1	222.5	192.0	169.0	154.6
85°	218.3	171.6	146.9	135.1	134.2
87.5°	46.7	62.0	49.3	46.7	33.1
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)