

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: P730657

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730657
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-L850
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18089.0 lumens
Efficiency: N/A
Efficacy: 157.6 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

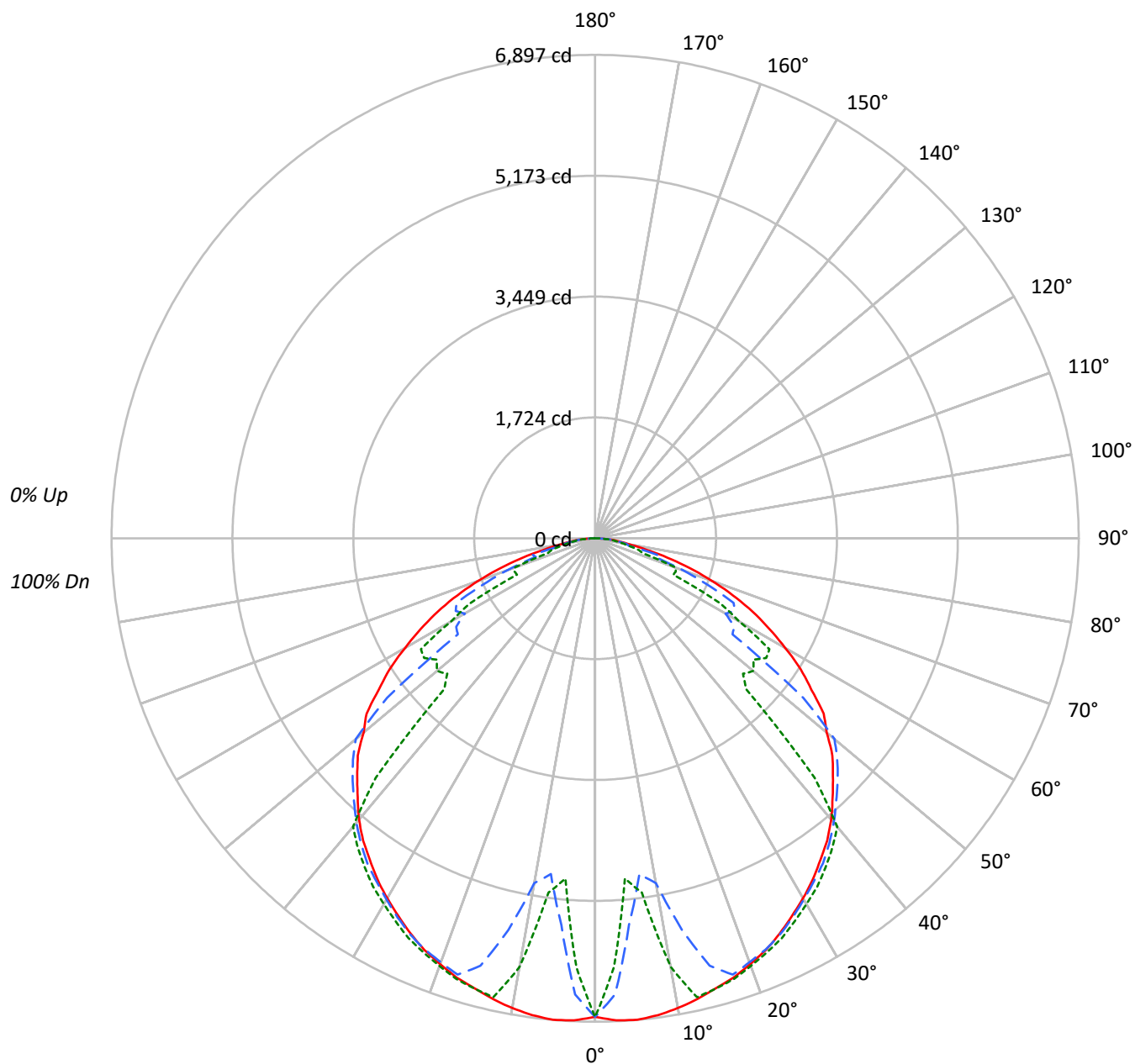
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11024	11024	11024
5°	11178	8980	7897
10°	11158	8189	10185
15°	11109	10555	11118
20°	11109	11059	11157
25°	11089	11114	11216
30°	11057	11094	11237
35°	11039	11162	11292
40°	11041	11161	11321
45°	10954	11169	6941
50°	10830	11191	7397
55°	10602	6729	8384
60°	10113	6937	7677
65°	9476	8329	4698
70°	8368	6310	5758
75°	6667	5735	3993
80°	4593	4145	3432
85°	4402	3825	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.0	3.0
10°-20°	1710.5	9.5
20°-30°	2814.2	15.6
30°-40°	3538.5	19.6
40°-50°	3470.4	19.2
50°-60°	2875.4	15.9
60°-70°	2028.1	11.2
70°-80°	884.8	4.9
80°-90°	221.1	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°	5070.8	28.0
0°-40°	8609.2	47.6
0°-60°	14955.0	82.7
0°-90°	18089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6828	6828	6828	6828	6828	
5°	6897	6419	5540	5024	4873	655
15°	6646	4615	6314	6672	6652	1879
25°	6225	5696	6238	6280	6296	2869
35°	5601	5598	5663	5700	5729	3509
45°	4798	4812	4891	4332	3040	3703
55°	3766	3890	2390	2718	2978	3370
65°	2480	2626	2180	1677	1230	2439
75°	1069	1048	919	601	640	1146
85°	238	212	206	198	196	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6828.0	6828.0	6828.0	6828.0	6828.0
2.5°	6884.3	6741.5	6514.5	6228.7	6127.5
5°	6896.6	6418.9	5540.5	5023.7	4872.6
7.5°	6861.5	5833.6	4830.2	4938.7	5098.8
10°	6806.0	5319.2	4995.1	5876.8	6212.4
12.5°	6734.9	4862.0	5722.5	6638.6	6705.5
15°	6645.9	4615.4	6314.5	6672.1	6651.6
17.5°	6570.8	4759.9	6526.7	6605.1	6590.4
20°	6465.5	5048.2	6436.1	6499.0	6493.2
22.5°	6359.3	5389.4	6350.4	6395.3	6395.3
25°	6224.7	5695.6	6238.5	6280.2	6295.7
27.5°	6076.8	5871.9	6098.9	6133.2	6160.9
30°	5930.7	5897.3	5950.3	5994.4	6027.0
32.5°	5776.4	5763.4	5805.0	5851.5	5893.1
35°	5600.8	5597.6	5662.9	5700.5	5729.1
37.5°	5435.9	5424.5	5484.9	5537.2	5559.2
40°	5238.4	5238.4	5295.5	5348.6	5371.5
42.5°	5013.0	5044.9	5089.0	5143.6	4632.6
45°	4797.5	4812.2	4891.4	4332.1	3039.7
47.5°	4590.1	4608.8	4684.0	2784.9	2860.9
50°	4311.7	4396.6	4455.4	2776.8	2945.0
52.5°	4108.4	4145.1	3740.2	2749.0	2843.7
55°	3766.3	3889.6	2390.5	2718.0	2978.4
57.5°	3474.0	3563.9	2350.6	2784.9	2946.6
60°	3131.9	3269.1	2148.1	2687.0	2377.5
62.5°	2803.7	2934.3	2242.8	2114.6	2013.4
65°	2480.4	2626.5	2180.0	1677.0	1229.6
67.5°	2126.0	1989.7	1739.0	1181.4	1243.5
70°	1772.5	1389.6	1336.6	1321.1	1219.8
72.5°	1409.2	1014.0	887.5	991.2	709.5
75°	1068.8	1047.5	919.4	600.9	640.1
77.5°	741.3	756.0	492.3	586.2	486.6
80°	494.0	427.9	445.8	373.9	369.1
82.5°	342.1	349.4	293.1	284.1	288.2
85°	237.6	211.5	206.5	197.6	196.0
87.5°	79.2	92.3	85.8	77.6	82.5
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)