

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: P730593

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730593
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-L740
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: 17407.0 lumens
Efficiency: N/A
Efficacy: 151.6 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

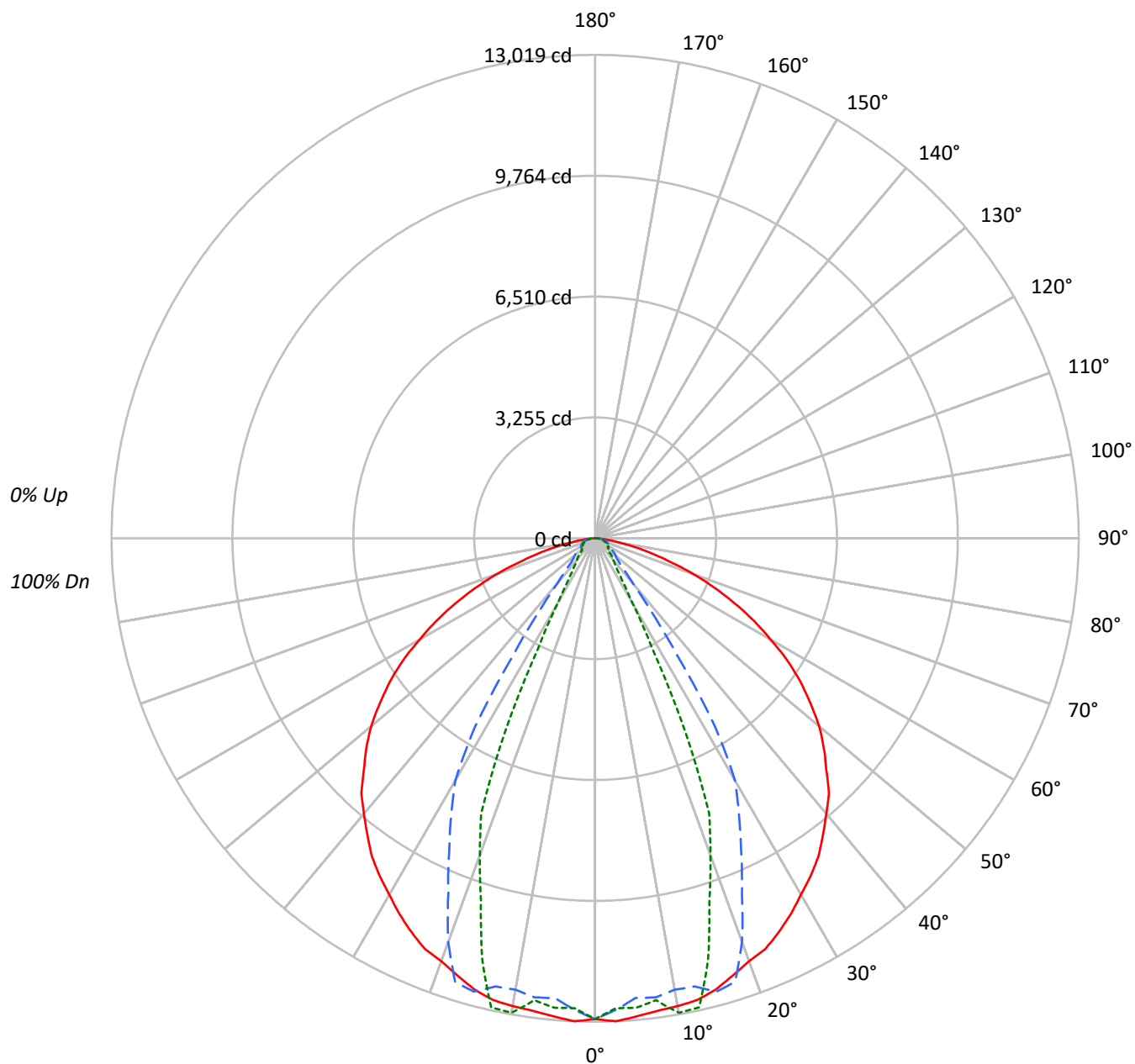
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	103	100		101	99	97			98	96	94			94
2	104	97	92	88	101	96	91	87		92	88	85			89	86	83			86
3	97	89	82	77	95	87	81	76		84	79	75			82	77	74			79
4	90	81	74	68	88	80	73	68		77	72	67			75	70	66			73
5	85	74	67	62	83	73	66	61		71	65	61			69	64	60			68
6	79	68	61	56	78	68	61	56		66	60	55			64	59	55			63
7	75	63	56	51	73	63	56	51		61	55	50			60	54	50			59
8	70	59	52	47	69	58	51	47		57	51	46			56	50	46			55
9	66	55	48	43	65	54	48	43		53	47	43			52	47	43			52
10	63	52	45	40	62	51	45	40		50	44	40			49	44	40			48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20906	20906	20906
5°	20940	20143	20567
10°	20971	20240	21279
15°	21018	21127	19636
20°	20819	19871	15586
25°	20849	16566	10181
30°	20662	14034	3657
35°	20640	7602	2057
40°	20406	3314	1611
45°	20091	2048	1263
50°	19778	1784	1193
55°	19001	1547	1167
60°	17629	1387	1254
65°	15846	1567	1370
70°	13289	1685	1413
75°	9934	1921	1530
80°	6240	2232	1744
85°	4155	2795	2555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1200.1	6.9
10°-20°	3388.9	19.5
20°-30°	4149.8	23.8
30°-40°	3258.8	18.7
40°-50°	2416.6	13.9
50°-60°	1471.2	8.5
60°-70°	881.3	5.1
70°-80°	483.5	2.8
80°-90°	156.8	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°	8738.8	50.2
0°-40°	11997.6	68.9
0°-60°	15885.4	91.3
0°-90°	17407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12948	12948	12948	12948	12948	
5°	12920	12569	12428	12565	12690	###
15°	12574	12229	12639	12129	11747	3540
25°	11703	11740	9299	7294	5715	5387
35°	10472	9526	3857	1291	1044	6534
45°	8799	6318	897	680	553	6804
55°	6750	1741	550	465	414	6007
65°	4148	513	410	386	359	4098
75°	1592	324	308	268	245	1724
85°	224	176	151	139	138	274
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12948.2	12948.2	12948.2	12948.2	12948.2
2.5°	13018.9	12843.5	12709.1	12634.1	12664.6
5°	12920.2	12568.6	12428.1	12565.1	12689.9
7.5°	12834.7	12312.0	12470.8	12483.1	12548.5
10°	12791.1	12287.6	12345.2	12616.6	12978.7
12.5°	12733.6	12344.3	12364.4	12734.4	12938.6
15°	12573.9	12229.1	12639.3	12128.8	11747.4
17.5°	12340.8	11960.4	12524.1	10744.8	10226.4
20°	12116.5	11668.0	11565.1	9571.1	9071.0
22.5°	11971.7	11623.6	10331.2	8528.3	8011.7
25°	11703.0	11739.6	9298.9	7293.5	5714.9
27.5°	11407.1	11466.5	8386.1	4864.1	3274.1
30°	11082.5	11150.6	7527.3	2874.4	1961.7
32.5°	10788.4	10404.5	6011.6	1793.3	1363.9
35°	10471.7	9525.7	3857.0	1290.6	1043.7
37.5°	10072.9	8602.4	2441.6	1021.0	876.2
40°	9681.9	7773.5	1572.5	871.7	764.5
42.5°	9316.3	7090.2	1144.0	761.8	690.3
45°	8798.8	6317.9	897.1	679.7	553.2
47.5°	8351.2	5412.1	784.5	575.1	477.4
50°	7873.8	4138.1	710.3	511.4	474.8
52.5°	7307.5	2706.9	656.2	489.6	443.3
55°	6749.9	1740.9	549.7	465.1	414.5
57.5°	6147.7	1103.9	485.2	451.1	432.8
60°	5459.2	744.3	429.4	427.6	388.3
62.5°	4822.2	611.7	414.5	410.2	367.4
65°	4147.7	513.1	410.2	385.7	358.6
67.5°	3474.0	439.8	370.9	352.5	329.0
70°	2815.1	402.3	356.9	349.1	299.3
72.5°	2137.9	331.6	316.8	295.8	248.7
75°	1592.5	323.7	308.0	267.9	245.2
77.5°	1077.7	298.5	280.1	240.0	221.7
80°	671.1	274.0	240.0	210.3	187.6
82.5°	398.8	228.6	197.2	173.7	158.8
85°	224.3	176.3	150.9	138.8	137.9
87.5°	48.0	63.7	50.6	48.0	34.0
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)