

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: P730522

Luminaire Tested: **HBLED-LD5-18HE-N-CL-WG-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730522
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-LD5-18HE-N-CL-WG-UNV-L750
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18137.0 lumens
Efficiency: N/A
Efficacy: 164.6 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

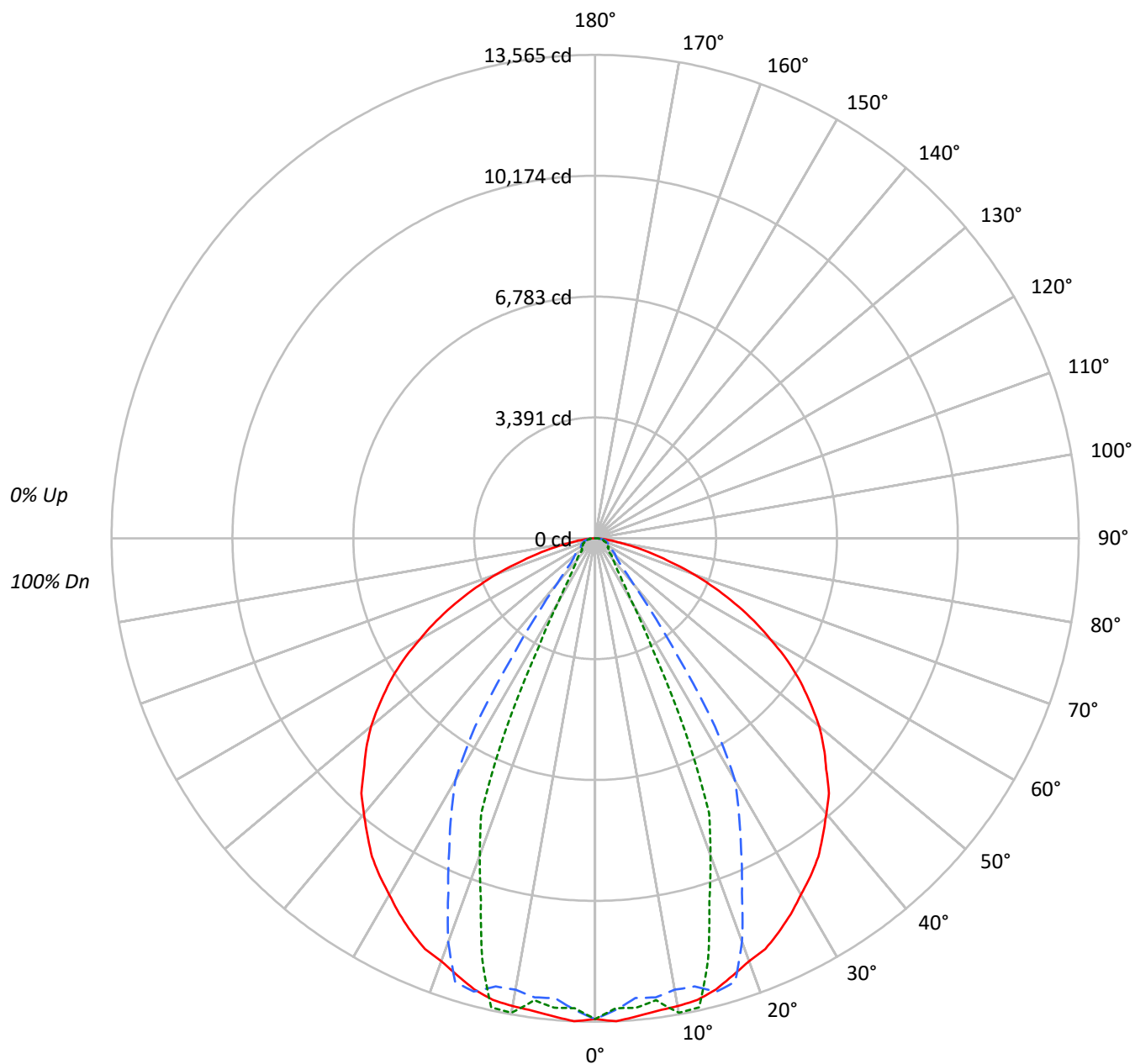
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	21783	21783	21783
5°	21819	20988	21430
10°	21851	21089	22171
15°	21899	22013	20460
20°	21692	20705	16240
25°	21723	17261	10608
30°	21528	14622	3811
35°	21506	7921	2144
40°	21262	3453	1679
45°	20933	2134	1316
50°	20607	1859	1243
55°	19797	1612	1216
60°	18368	1445	1307
65°	16510	1633	1428
70°	13847	1756	1472
75°	10351	2002	1594
80°	6501	2325	1817
85°	4329	2914	2660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1250.5	6.9
10°-20°	3531.0	19.5
20°-30°	4323.8	23.8
30°-40°	3395.5	18.7
40°-50°	2518.0	13.9
50°-60°	1532.9	8.5
60°-70°	918.2	5.1
70°-80°	503.8	2.8
80°-90°	163.4	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°	9105.2	50.2
0°-40°	12500.7	68.9
0°-60°	16551.6	91.3
0°-90°	18137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13491	13491	13491	13491	13491	
5°	13462	13096	12949	13092	13222	###
15°	13101	12742	13169	12638	12240	3689
25°	12194	12232	9689	7599	5955	5613
35°	10911	9925	4019	1345	1088	6808
45°	9168	6583	935	708	576	7089
55°	7033	1814	573	485	432	6259
65°	4322	535	427	402	374	4270
75°	1659	337	321	279	256	1797
85°	234	184	157	145	144	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13491.2	13491.2	13491.2	13491.2	13491.2
2.5°	13564.8	13382.1	13242.1	13163.9	13195.7
5°	13462.1	13095.6	12949.3	13092.1	13222.1
7.5°	13373.0	12828.4	12993.8	13006.6	13074.8
10°	13327.6	12802.9	12862.9	13145.7	13523.0
12.5°	13267.6	12862.0	12882.9	13268.4	13481.2
15°	13101.2	12742.0	13169.3	12637.5	12240.1
17.5°	12858.4	12461.9	13049.3	11195.4	10655.3
20°	12624.7	12157.4	12050.1	9972.5	9451.5
22.5°	12473.8	12111.0	10764.5	8885.9	8347.6
25°	12193.7	12231.9	9688.8	7599.3	5954.6
27.5°	11885.5	11947.3	8737.8	5068.1	3411.4
30°	11547.3	11618.2	7843.0	2995.0	2044.0
32.5°	11240.9	10840.8	6263.7	1868.5	1421.1
35°	10910.8	9925.2	4018.8	1344.8	1087.5
37.5°	10495.3	8963.2	2544.0	1063.8	912.9
40°	10088.0	8099.5	1638.4	908.3	796.5
42.5°	9707.0	7387.5	1192.0	793.8	719.2
45°	9167.8	6582.8	934.7	708.3	576.5
47.5°	8701.4	5639.1	817.4	599.2	497.4
50°	8204.0	4311.6	740.1	532.8	494.7
52.5°	7613.9	2820.4	683.7	510.1	461.9
55°	7032.9	1814.0	572.8	484.6	431.9
57.5°	6405.5	1150.2	505.6	470.0	451.0
60°	5688.2	775.6	447.4	445.5	404.6
62.5°	5024.4	637.4	431.9	427.4	382.8
65°	4321.6	534.6	427.4	401.9	373.7
67.5°	3619.6	458.3	386.5	367.3	342.8
70°	2933.2	419.2	371.9	363.7	311.8
72.5°	2227.6	345.5	330.1	308.2	259.2
75°	1659.3	337.3	320.9	279.1	255.5
77.5°	1122.9	311.0	291.9	250.1	231.0
80°	699.2	285.5	250.1	219.1	195.4
82.5°	415.5	238.2	205.5	181.0	165.5
85°	233.7	183.7	157.3	144.6	143.6
87.5°	50.0	66.4	52.7	50.0	35.4
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)