

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: P730527

Luminaire Tested: **HBLED-LD5-18HE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CLI-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17790.0 lumens
Efficiency: N/A
Efficacy: 161.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

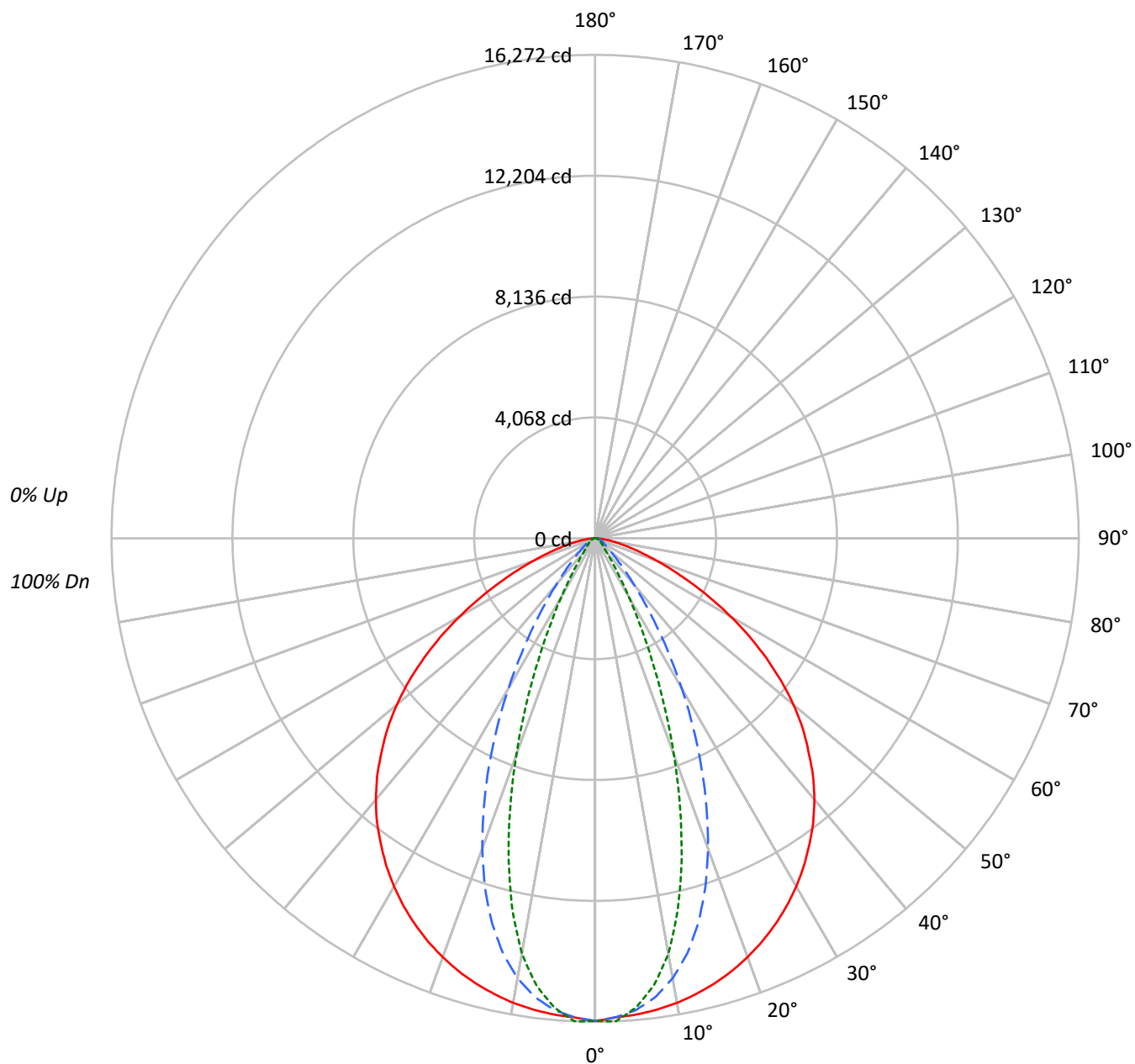
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26237	26237	26237
5°	26079	25820	25684
10°	26035	24650	23261
15°	25930	22407	18786
20°	25775	19066	13315
25°	25544	15034	8045
30°	25234	10851	4134
35°	24779	7094	2065
40°	24191	4261	1205
45°	23186	2545	901
50°	21868	1664	757
55°	19792	1262	660
60°	17008	1075	602
65°	13681	981	569
70°	10307	1051	566
75°	7581	999	582
80°	5546	995	637
85°	4155	1206	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1496.5	8.4
10°-20°	3723.0	20.9
20°-30°	4123.8	23.2
30°-40°	3303.9	18.6
40°-50°	2358.6	13.3
50°-60°	1514.9	8.5
60°-70°	821.0	4.6
70°-80°	350.9	2.0
80°-90°	97.3	0.5
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°	9343.4	52.5
0°-40°	12647.3	71.1
0°-60°	16520.8	92.9
0°-90°	17790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16250	16250	16250	16250	16250	
5°	16091	16151	15931	15880	15847	###
15°	15513	15028	13405	11846	11239	4377
25°	14339	12643	8439	5498	4516	6606
35°	12571	9093	3599	1452	1048	7860
45°	10154	5249	1114	474	395	7827
55°	7031	2347	448	276	234	6266
65°	3581	964	257	177	149	3586
75°	1215	353	160	111	93	1350
85°	224	93	65	54	44	274
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16249.8	16249.8	16249.8	16249.8	16249.8
2.5°	16142.9	16243.9	16135.1	16202.8	16272.1
5°	16090.7	16150.6	15930.6	15880.1	15846.8
7.5°	15999.9	15982.8	15569.5	15301.6	15172.3
10°	15880.1	15741.4	15035.3	14446.5	14188.1
12.5°	15708.9	15423.1	14312.1	13278.2	12840.0
15°	15512.9	15027.7	13404.9	11846.4	11238.7
17.5°	15278.4	14565.5	12320.5	10310.9	9508.9
20°	15001.1	14007.5	11096.6	8679.6	7749.2
22.5°	14691.3	13363.8	9786.2	7053.3	6055.4
25°	14338.7	12643.1	8439.1	5498.2	4515.7
27.5°	13957.9	11843.0	7099.6	4108.3	3212.1
30°	13535.0	10976.8	5820.0	2962.3	2217.6
32.5°	13073.7	10055.8	4631.3	2083.2	1516.7
35°	12571.3	9093.0	3599.0	1451.6	1047.6
37.5°	12056.9	8110.4	2718.3	1026.2	751.5
40°	11477.4	7131.2	2021.6	751.5	571.7
42.5°	10855.2	6170.9	1496.1	578.5	463.0
45°	10154.3	5249.1	1114.4	474.2	394.6
47.5°	9474.7	4389.9	846.5	404.0	343.2
50°	8706.1	3614.4	662.4	352.6	301.2
52.5°	7890.4	2932.3	537.5	310.7	265.3
55°	7031.1	2346.8	448.4	275.6	234.5
57.5°	6160.7	1858.9	383.4	245.6	208.9
60°	5267.1	1486.7	332.9	219.9	186.5
62.5°	4395.0	1188.9	291.0	197.7	166.9
65°	3581.0	963.7	256.8	177.2	148.9
67.5°	2828.7	761.7	239.7	159.2	134.4
70°	2183.3	593.1	222.6	142.1	119.8
72.5°	1654.4	455.4	196.9	126.7	106.1
75°	1215.3	352.6	160.1	111.3	93.3
77.5°	869.6	271.4	130.1	96.7	80.5
80°	596.5	202.0	107.0	83.0	68.5
82.5°	387.8	143.0	86.4	68.5	56.4
85°	224.3	93.3	65.1	53.9	44.5
87.5°	96.7	51.3	44.5	40.2	34.2
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)