

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: P730526

Luminaire Tested: **HBLED-LD5-18HE-N-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730526
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-L735
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: 17267.0 lumens
Efficiency: N/A
Efficacy: 156.7 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

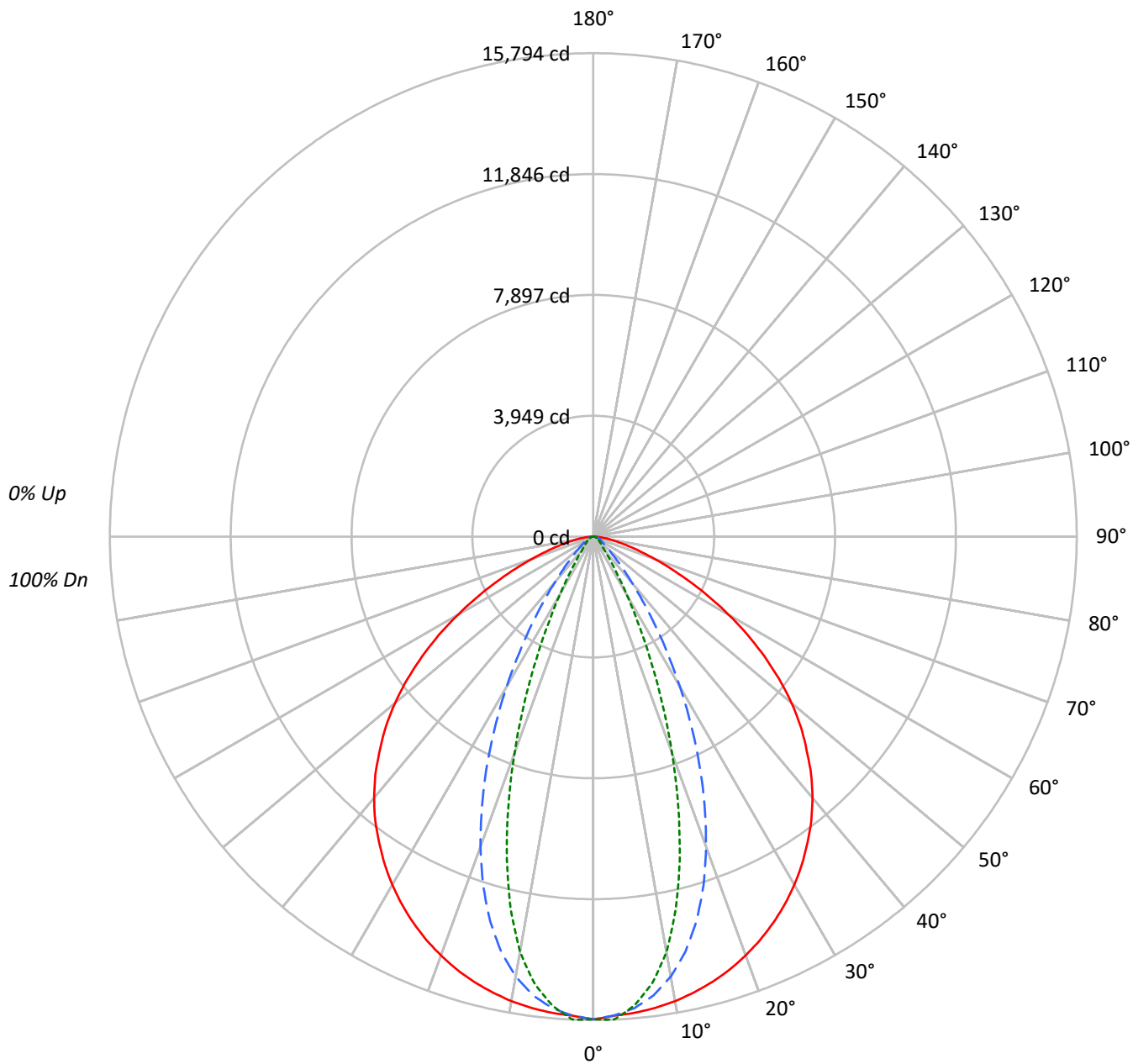
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25465	25465	25465
5°	25312	25061	24929
10°	25270	23926	22577
15°	25168	21748	18234
20°	25017	18506	12923
25°	24793	14592	7808
30°	24492	10532	4013
35°	24050	6885	2004
40°	23480	4136	1170
45°	22504	2470	875
50°	21226	1615	734
55°	19210	1225	641
60°	16509	1043	585
65°	13279	952	552
70°	10004	1020	549
75°	7359	969	565
80°	5384	965	618
85°	4033	1171	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1452.5	8.4
10°-20°	3613.6	20.9
20°-30°	4002.6	23.2
30°-40°	3206.8	18.6
40°-50°	2289.2	13.3
50°-60°	1470.4	8.5
60°-70°	796.9	4.6
70°-80°	340.6	2.0
80°-90°	94.5	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°	9068.7	52.5
0°-40°	12275.5	71.1
0°-60°	16035.1	92.9
0°-90°	17267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15772	15772	15772	15772	15772	
5°	15618	15676	15462	15413	15381	###
15°	15057	14586	13011	11498	10908	4248
25°	13917	12271	8191	5337	4383	6411
35°	12202	8826	3493	1409	1017	7629
45°	9856	5095	1082	460	383	7597
55°	6824	2278	435	268	228	6082
65°	3476	935	249	172	144	3481
75°	1180	342	155	108	90	1311
85°	218	90	63	52	43	266
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15772.1	15772.1	15772.1	15772.1	15772.1
2.5°	15668.3	15766.4	15660.8	15726.4	15793.7
5°	15617.6	15675.8	15462.3	15413.2	15380.9
7.5°	15529.5	15512.9	15111.8	14851.7	14726.2
10°	15413.2	15278.7	14593.3	14021.8	13771.0
12.5°	15247.1	14969.7	13891.4	12887.9	12462.6
15°	15056.9	14585.9	13010.8	11498.1	10908.3
17.5°	14829.3	14137.3	11958.3	10007.8	9229.4
20°	14560.1	13595.7	10770.4	8424.4	7521.4
22.5°	14259.4	12971.0	9498.5	6846.0	5877.4
25°	13917.1	12271.4	8191.0	5336.6	4382.9
27.5°	13547.5	11494.8	6890.9	3987.5	3117.7
30°	13137.1	10654.1	5648.9	2875.2	2152.4
32.5°	12689.3	9760.2	4495.1	2022.0	1472.1
35°	12201.7	8825.7	3493.2	1408.9	1016.8
37.5°	11702.4	7871.9	2638.4	996.0	729.4
40°	11140.0	6921.6	1962.2	729.4	554.9
42.5°	10536.1	5989.5	1452.1	561.5	449.4
45°	9855.7	5094.8	1081.6	460.2	383.0
47.5°	9196.2	4260.8	821.6	392.1	333.1
50°	8450.2	3508.2	643.0	342.3	292.4
52.5°	7658.5	2846.1	521.7	301.6	257.5
55°	6824.4	2277.8	435.3	267.5	227.6
57.5°	5979.6	1804.3	372.2	238.4	202.7
60°	5112.3	1443.0	323.1	213.5	181.1
62.5°	4265.8	1153.9	282.4	191.9	162.0
65°	3475.8	935.4	249.2	172.0	144.5
67.5°	2745.5	739.4	232.6	154.5	130.5
70°	2119.1	575.7	216.0	137.9	116.3
72.5°	1605.8	442.0	191.1	122.9	103.0
75°	1179.6	342.3	155.4	108.0	90.5
77.5°	844.0	263.4	126.3	93.8	78.1
80°	579.0	196.1	103.8	80.6	66.5
82.5°	376.4	138.8	83.9	66.5	54.8
85°	217.7	90.5	63.2	52.3	43.2
87.5°	93.8	49.8	43.2	39.1	33.2
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)