

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: P730532

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18662.0 lumens
Efficiency: N/A
Efficacy: 169.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

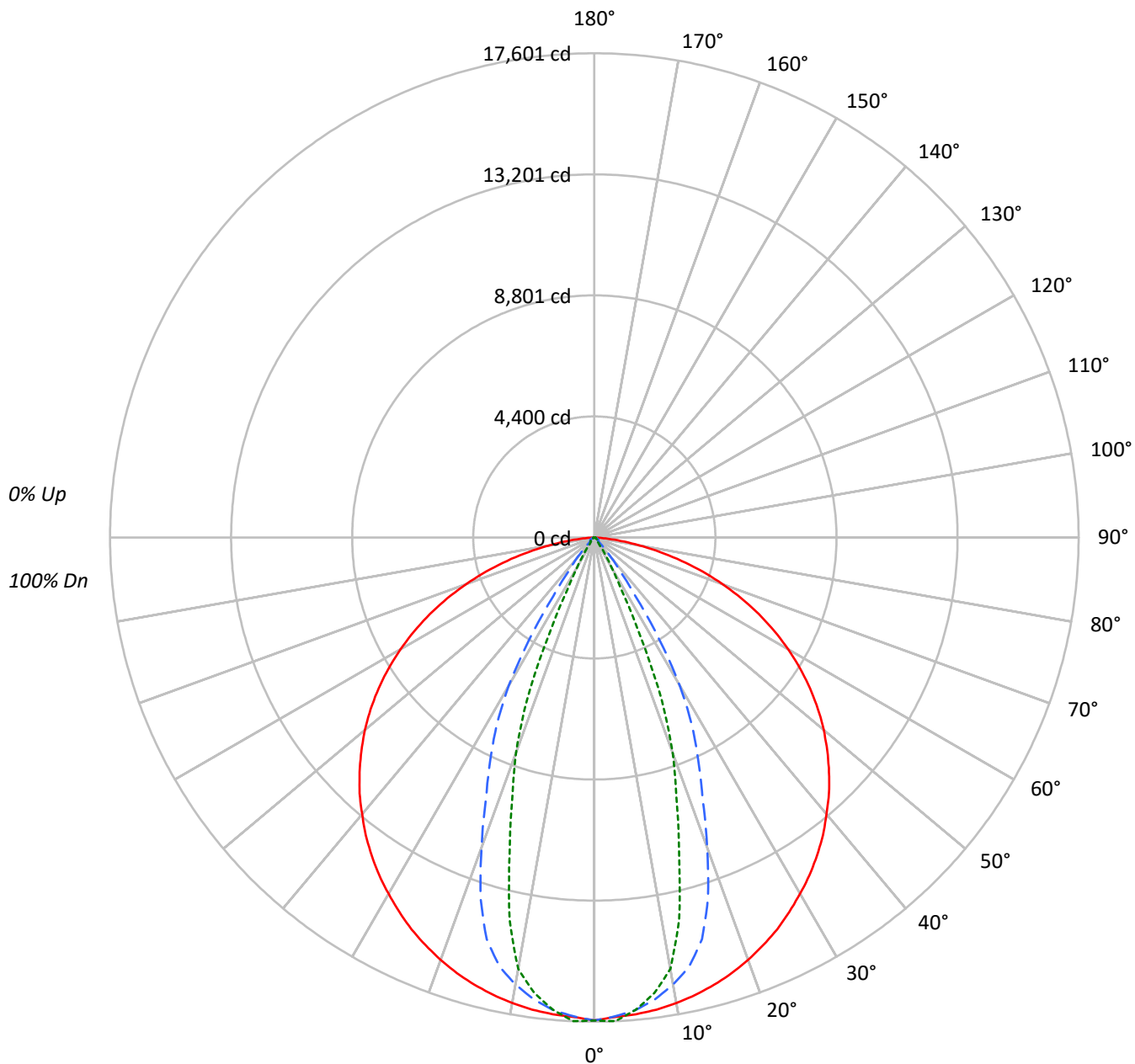
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28349	28349	28349
5°	28197	27948	27936
10°	28180	27053	26104
15°	28140	25274	19866
20°	28074	20603	14300
25°	28003	15931	7044
30°	27879	11578	2285
35°	27813	5137	588
40°	27668	2086	396
45°	27544	585	422
50°	27329	415	468
55°	26936	494	200
60°	26271	550	121
65°	25190	351	144
70°	23402	312	177
75°	20472	235	245
80°	15307	287	350
85°	7582	371	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1629.4	8.7
10°-20°	4074.3	21.8
20°-30°	4413.1	23.6
30°-40°	3268.1	17.5
40°-50°	2353.9	12.6
50°-60°	1457.5	7.8
60°-70°	896.3	4.8
70°-80°	472.5	2.5
80°-90°	96.7	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°	10116.9	54.2
0°-40°	13385.0	71.7
0°-60°	17196.4	92.1
0°-90°	18662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17558	17558	17558	17558	17558	
5°	17398	17462	17244	17256	17236	###
15°	16835	16444	15120	12858	11885	4752
25°	15719	14398	8942	5626	3954	7243
35°	14111	9948	2606	613	298	8828
45°	12063	5605	256	185	185	9303
55°	9569	1154	175	159	71	8542
65°	6594	122	92	58	38	6506
75°	3282	28	38	49	39	3466
85°	409	11	20	30	25	618
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17558.0	17558.0	17558.0	17558.0	17558.0
2.5°	17445.3	17556.4	17425.3	17523.0	17600.7
5°	17397.7	17462.0	17244.0	17256.5	17236.5
7.5°	17314.1	17299.1	16932.5	16772.1	16701.9
10°	17188.1	17088.6	16500.7	16165.7	15921.8
12.5°	17025.2	16803.0	15961.9	14896.9	14235.4
15°	16834.7	16443.8	15119.9	12858.1	11884.9
17.5°	16607.5	16053.8	13743.4	10776.5	9907.9
20°	16339.4	15618.6	11991.0	9168.7	8322.6
22.5°	16040.4	15089.0	10288.8	7620.1	6413.1
25°	15718.8	14398.3	8942.3	5625.5	3954.1
27.5°	15347.1	13510.4	7679.4	3313.5	2018.0
30°	14953.7	12441.2	6210.2	1782.4	1225.4
32.5°	14557.0	11229.3	4394.3	1113.4	694.9
35°	14111.0	9948.0	2606.0	613.1	298.2
37.5°	13645.7	8773.6	1540.2	279.0	191.3
40°	13127.0	7700.3	989.8	185.4	187.9
42.5°	12625.9	6699.7	557.1	182.9	186.3
45°	12062.8	5604.6	256.4	185.4	184.6
47.5°	11480.7	4469.5	166.2	187.1	187.1
50°	10880.2	3195.8	165.4	191.3	186.3
52.5°	10246.2	1993.8	172.1	190.5	152.9
55°	9568.8	1154.3	175.4	158.7	71.0
57.5°	8867.2	680.7	177.1	91.0	40.1
60°	8135.4	376.7	170.4	67.6	37.6
62.5°	7381.2	179.6	134.5	63.5	36.7
65°	6593.5	122.0	91.8	58.4	37.6
67.5°	5775.8	94.4	72.6	55.1	38.4
70°	4957.3	70.1	66.0	55.1	37.6
72.5°	4125.4	47.6	55.1	55.9	37.6
75°	3281.7	28.4	37.6	49.3	39.2
77.5°	2445.6	17.5	29.2	50.9	47.6
80°	1646.3	15.0	30.9	47.6	37.6
82.5°	966.4	13.4	30.1	36.7	30.1
85°	409.3	10.9	20.0	30.1	25.0
87.5°	76.8	9.2	15.9	24.2	21.7
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)