

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: P730515

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
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-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18010.0 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

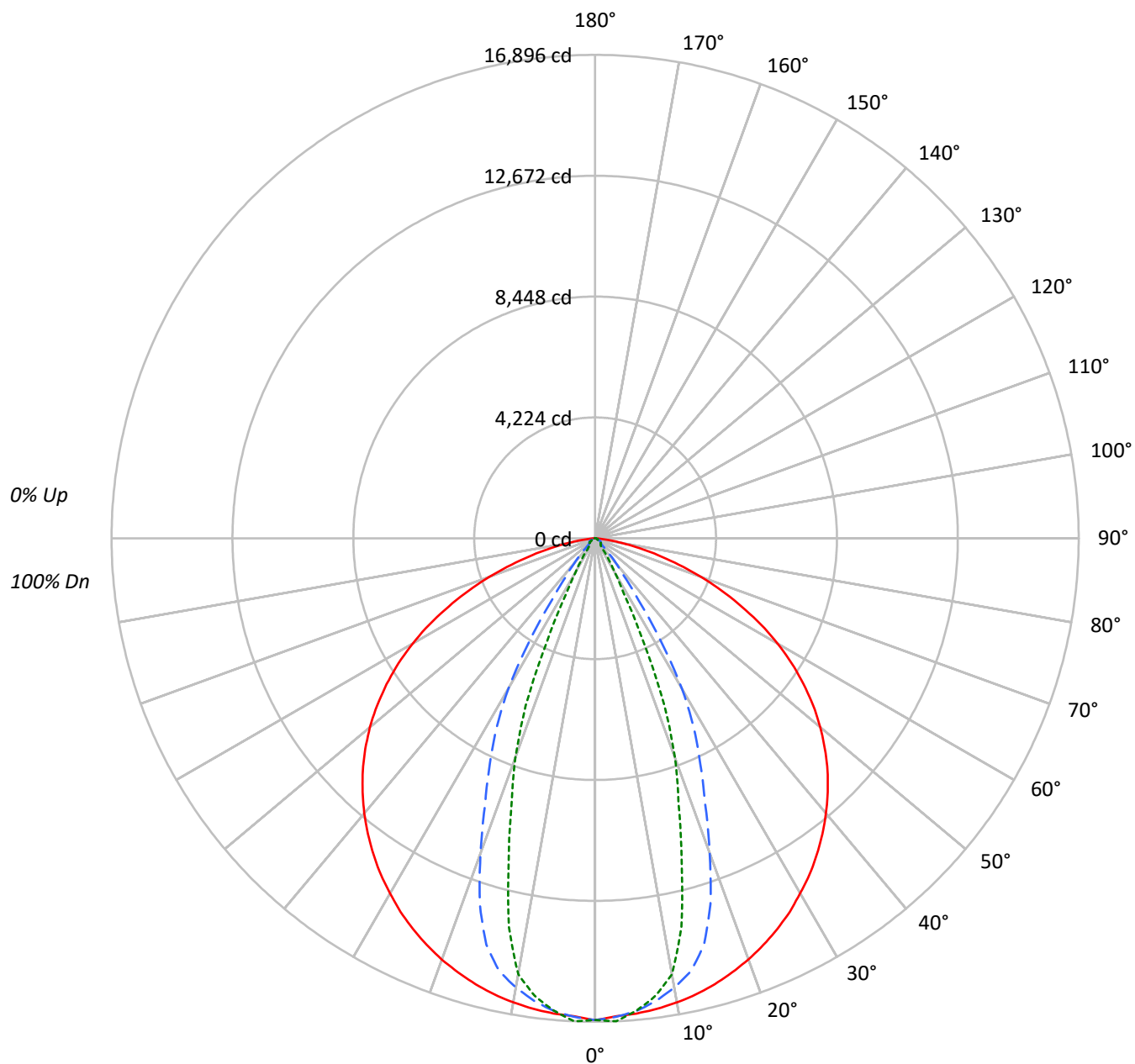
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27189	27189	27189
5°	27022	26881	26862
10°	27004	26138	25367
15°	26973	24579	19505
20°	26921	20114	13990
25°	26836	15497	7109
30°	26709	11310	2587
35°	26614	5194	900
40°	26450	2357	621
45°	26215	880	630
50°	25797	639	662
55°	25033	672	505
60°	23789	718	445
65°	21574	547	362
70°	18497	395	334
75°	14138	349	318
80°	8846	328	345
85°	2794	383	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1567.8	8.7
10°-20°	3949.4	21.9
20°-30°	4301.0	23.9
30°-40°	3217.4	17.9
40°-50°	2313.4	12.8
50°-60°	1420.8	7.9
60°-70°	817.5	4.5
70°-80°	364.9	2.0
80°-90°	57.9	0.3
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°	9818.2	54.5
0°-40°	13035.5	72.4
0°-60°	16769.7	93.1
0°-90°	18010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16840	16840	16840	16840	16840	
5°	16673	16751	16586	16601	16574	###
15°	16137	15827	14704	12629	11669	4555
25°	15064	13983	8699	5581	3991	6944
35°	13502	9684	2635	775	457	8446
45°	11481	5441	385	285	276	8844
55°	8893	1131	239	231	179	7929
65°	5647	124	143	119	95	5590
75°	2266	75	56	58	51	2459
85°	151	15	21	27	25	301
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16839.8	16839.8	16839.8	16839.8	16839.8
2.5°	16722.6	16832.1	16739.8	16822.6	16895.8
5°	16672.7	16751.1	16585.6	16601.1	16573.6
7.5°	16586.5	16605.4	16306.4	16191.0	16134.9
10°	16471.0	16420.2	15942.8	15667.9	15472.3
12.5°	16325.4	16157.4	15490.3	14508.8	13923.8
15°	16136.7	15827.3	14704.5	12628.6	11668.6
17.5°	15911.8	15482.6	13403.2	10525.1	9694.4
20°	15667.9	15101.7	11706.5	8949.0	8142.4
22.5°	15380.1	14614.8	10033.0	7442.7	6335.4
25°	15063.8	13983.2	8699.1	5581.4	3990.7
27.5°	14722.6	13149.9	7464.2	3422.7	2157.8
30°	14326.2	12135.7	6066.5	1920.8	1387.4
32.5°	13939.2	10953.4	4333.6	1279.6	886.7
35°	13502.3	9684.1	2635.2	774.7	456.7
37.5°	13039.6	8530.2	1649.4	421.4	315.4
40°	12549.3	7435.8	1118.5	299.1	294.7
42.5°	12025.3	6445.7	700.5	284.3	293.8
45°	11480.8	5440.9	385.2	285.3	275.8
47.5°	10889.6	4350.0	268.9	269.7	268.9
50°	10270.1	3120.3	254.2	266.3	263.7
52.5°	9602.2	1937.2	255.1	260.2	233.5
55°	8893.0	1130.6	238.7	231.0	179.3
57.5°	8147.6	704.9	233.5	190.5	161.1
60°	7366.9	372.3	222.3	171.5	137.8
62.5°	6535.3	183.6	178.3	146.5	112.9
65°	5646.9	124.1	143.1	118.9	94.8
67.5°	4788.6	112.0	107.8	97.4	82.7
70°	3918.3	102.5	83.6	85.3	70.7
72.5°	3064.3	93.0	67.2	73.2	59.4
75°	2266.3	75.0	56.0	57.7	50.9
77.5°	1576.9	58.6	44.0	49.1	47.4
80°	951.4	37.1	35.3	40.5	37.1
82.5°	461.0	24.1	27.6	31.8	29.3
85°	150.8	14.6	20.7	26.7	25.0
87.5°	19.0	8.6	17.2	23.3	21.5
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)