

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: P730574

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19379.0 lumens
Efficiency: N/A
Efficacy: 175.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

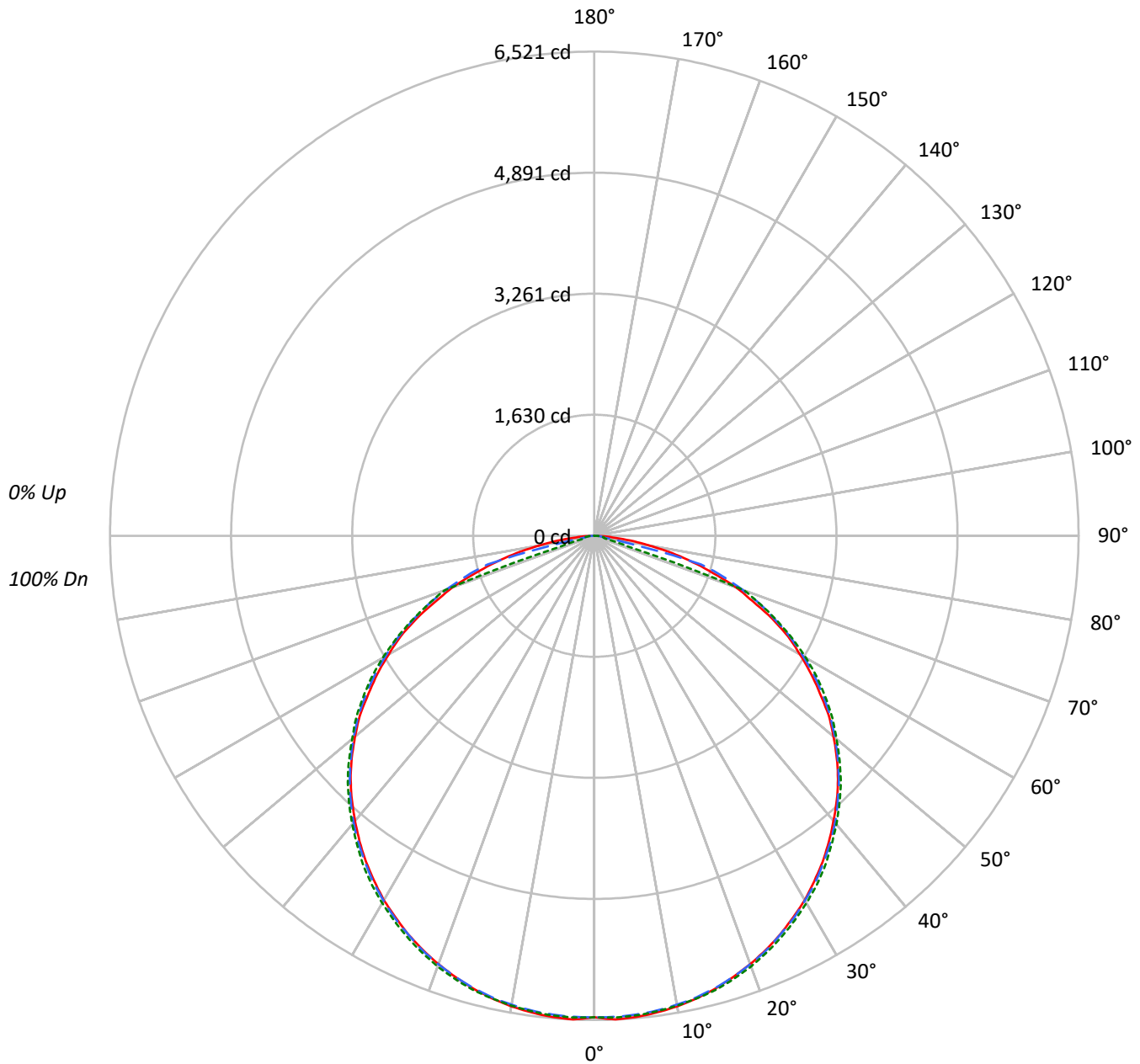
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10470	10470	10470
5°	10545	10491	10510
10°	10551	10513	10535
15°	10550	10535	10584
20°	10549	10552	10606
25°	10554	10559	10624
30°	10566	10579	10649
35°	10564	10598	10686
40°	10565	10632	10690
45°	10595	10635	10720
50°	10563	10625	10693
55°	10447	10593	10707
60°	10328	10496	10627
65°	10100	10309	10387
70°	9588	9998	10120
75°	8552	9273	1117
80°	6877	1155	1223
85°	4576	1499	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.9	3.2
10°-20°	1779.7	9.2
20°-30°	2734.4	14.1
30°-40°	3366.1	17.4
40°-50°	3588.6	18.5
50°-60°	3354.6	17.3
60°-70°	2655.6	13.7
70°-80°	1129.8	5.8
80°-90°	154.3	0.8
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°	5130.0	26.5
0°-40°	8496.1	43.8
0°-60°	15439.3	79.7
0°-90°	19379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6485	6485	6485	6485	6485	
5°	6506	6478	6473	6447	6485	619
15°	6311	6300	6303	6285	6332	1782
25°	5924	5917	5927	5924	5963	2731
35°	5359	5351	5377	5396	5422	3353
45°	4640	4614	4657	4676	4695	3575
55°	3711	3723	3763	3776	3804	3323
65°	2644	2667	2698	2719	2719	2601
75°	1371	1430	1486	243	179	1450
85°	247	74	81	84	82	322
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6484.8	6484.8	6484.8	6484.8	6484.8
2.5°	6520.9	6490.5	6484.8	6458.8	6493.4
5°	6506.4	6477.5	6473.2	6447.2	6484.8
7.5°	6476.1	6453.0	6450.1	6422.7	6460.2
10°	6435.7	6414.0	6412.5	6388.0	6425.5
12.5°	6380.8	6362.0	6367.8	6343.2	6380.8
15°	6311.4	6299.9	6302.7	6285.4	6331.6
17.5°	6227.6	6221.9	6227.6	6214.6	6256.5
20°	6139.5	6132.3	6141.0	6133.7	6172.7
22.5°	6036.9	6028.3	6045.6	6035.5	6071.6
25°	5924.3	5917.0	5927.2	5924.3	5963.3
27.5°	5795.7	5788.5	5810.1	5811.6	5841.9
30°	5667.1	5657.0	5674.4	5681.6	5711.9
32.5°	5514.0	5511.1	5537.1	5542.9	5574.7
35°	5359.4	5350.8	5376.8	5395.5	5421.5
37.5°	5190.4	5189.0	5216.4	5232.3	5245.3
40°	5012.7	5005.5	5044.5	5060.4	5072.0
42.5°	4832.2	4816.3	4853.8	4874.0	4887.1
45°	4640.0	4614.0	4657.4	4676.1	4694.9
47.5°	4429.1	4406.0	4447.9	4468.1	4481.1
50°	4205.2	4183.5	4229.8	4247.1	4257.2
52.5°	3979.8	3958.2	4007.3	4021.7	4046.3
55°	3711.2	3722.7	3763.2	3776.2	3803.6
57.5°	3462.7	3472.8	3511.8	3527.7	3559.5
60°	3198.3	3214.2	3250.3	3266.2	3290.8
62.5°	2942.6	2944.1	2987.4	2994.6	3013.4
65°	2643.6	2666.7	2698.5	2718.7	2718.7
67.5°	2309.9	2366.2	2421.1	2416.8	2428.4
70°	2031.1	2052.8	2117.8	2127.9	2143.8
72.5°	1681.5	1737.8	1810.1	1352.1	459.4
75°	1370.9	1430.1	1486.5	242.7	179.1
77.5°	1064.7	1110.9	494.1	138.7	135.8
80°	739.6	813.3	124.2	127.1	131.5
82.5°	486.8	397.3	102.6	112.7	114.1
85°	247.0	73.7	80.9	83.8	82.3
87.5°	80.9	44.8	46.2	47.7	49.1
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)