

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: P730560

Luminaire Tested: **HBLED-LD5-18HE-W-CL-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-WG-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16905.0 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

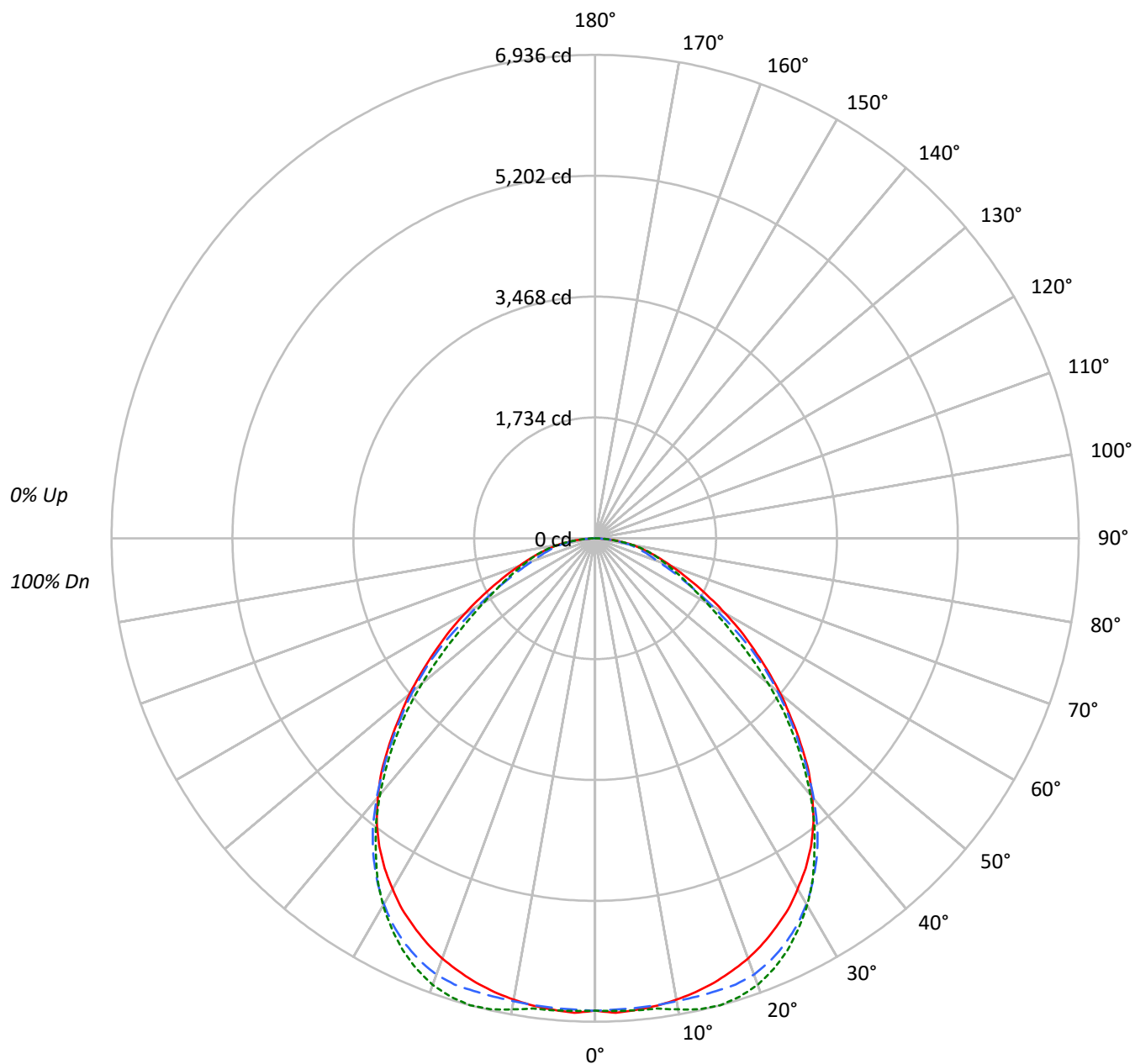
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10944	10944	10944
5°	11009	10963	11017
10°	11019	11056	11254
15°	11032	11240	11593
20°	11025	11445	11713
25°	10957	11456	11624
30°	10832	11304	11340
35°	10638	10938	10807
40°	10219	10281	10119
45°	9521	9421	9230
50°	8717	8577	8138
55°	7830	7540	6880
60°	6944	6238	5939
65°	6118	5184	5390
70°	5472	4498	5134
75°	5126	4374	5192
80°	4990	4422	4942
85°	3983	3498	3627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.7	3.8
10°-20°	1902.0	11.3
20°-30°	2926.0	17.3
30°-40°	3414.8	20.2
40°-50°	3173.2	18.8
50°-60°	2352.1	13.9
60°-70°	1437.9	8.5
70°-80°	819.0	4.8
80°-90°	234.2	1.4
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°	5473.7	32.4
0°-40°	8888.5	52.6
0°-60°	14413.8	85.3
0°-90°	16905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6778	6778	6778	6778	6778	
5°	6792	6761	6764	6759	6798	646
15°	6600	6597	6724	6857	6936	1863
25°	6151	6198	6430	6485	6525	2833
35°	5397	5439	5549	5504	5483	3363
45°	4170	4194	4126	4062	4042	3213
55°	2782	2712	2678	2488	2444	2496
65°	1602	1455	1357	1393	1411	1603
75°	822	771	701	799	832	879
85°	215	210	189	196	196	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6778.4	6778.4	6778.4	6778.4	6778.4
2.5°	6815.1	6776.7	6769.6	6754.0	6788.9
5°	6792.4	6760.9	6764.4	6759.2	6797.7
7.5°	6766.2	6743.5	6757.4	6755.7	6806.4
10°	6720.7	6708.5	6743.5	6781.9	6864.1
12.5°	6670.0	6657.8	6734.7	6832.6	6921.8
15°	6600.1	6596.6	6724.2	6857.1	6935.8
17.5°	6512.7	6517.9	6711.9	6825.6	6895.5
20°	6416.5	6425.2	6661.3	6754.0	6816.9
22.5°	6292.4	6322.1	6563.3	6640.3	6689.2
25°	6150.7	6197.9	6430.5	6484.7	6524.9
27.5°	5998.7	6045.8	6266.1	6294.1	6316.9
30°	5809.8	5876.2	6063.3	6066.9	6082.5
32.5°	5617.5	5677.0	5820.3	5804.6	5808.0
35°	5397.2	5439.1	5549.3	5503.9	5482.9
37.5°	5143.7	5166.4	5236.3	5168.2	5164.6
40°	4848.2	4877.9	4877.9	4783.6	4801.0
42.5°	4533.5	4544.0	4500.3	4411.1	4425.1
45°	4169.8	4194.3	4126.1	4061.5	4042.2
47.5°	3809.7	3834.2	3762.5	3687.3	3654.1
50°	3470.5	3458.2	3414.6	3286.9	3239.7
52.5°	3119.1	3080.6	3063.2	2876.1	2821.9
55°	2781.6	2711.7	2678.5	2487.9	2444.2
57.5°	2468.7	2342.8	2279.9	2131.3	2113.8
60°	2150.5	2008.9	1931.9	1835.8	1839.3
62.5°	1862.0	1713.4	1620.8	1592.8	1605.0
65°	1601.5	1454.6	1356.8	1393.4	1410.9
67.5°	1365.5	1244.8	1134.7	1220.4	1237.8
70°	1159.2	1063.0	952.9	1078.8	1087.5
72.5°	987.8	909.2	816.5	935.3	954.6
75°	821.7	771.1	701.1	799.0	832.2
77.5°	676.6	636.4	596.2	655.7	692.4
80°	536.7	496.6	475.6	507.0	531.5
82.5°	379.4	353.2	332.2	354.9	367.2
85°	215.0	209.8	188.8	195.8	195.8
87.5°	49.0	55.9	62.9	57.7	49.0
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)