

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: P730554

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
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-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17191.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

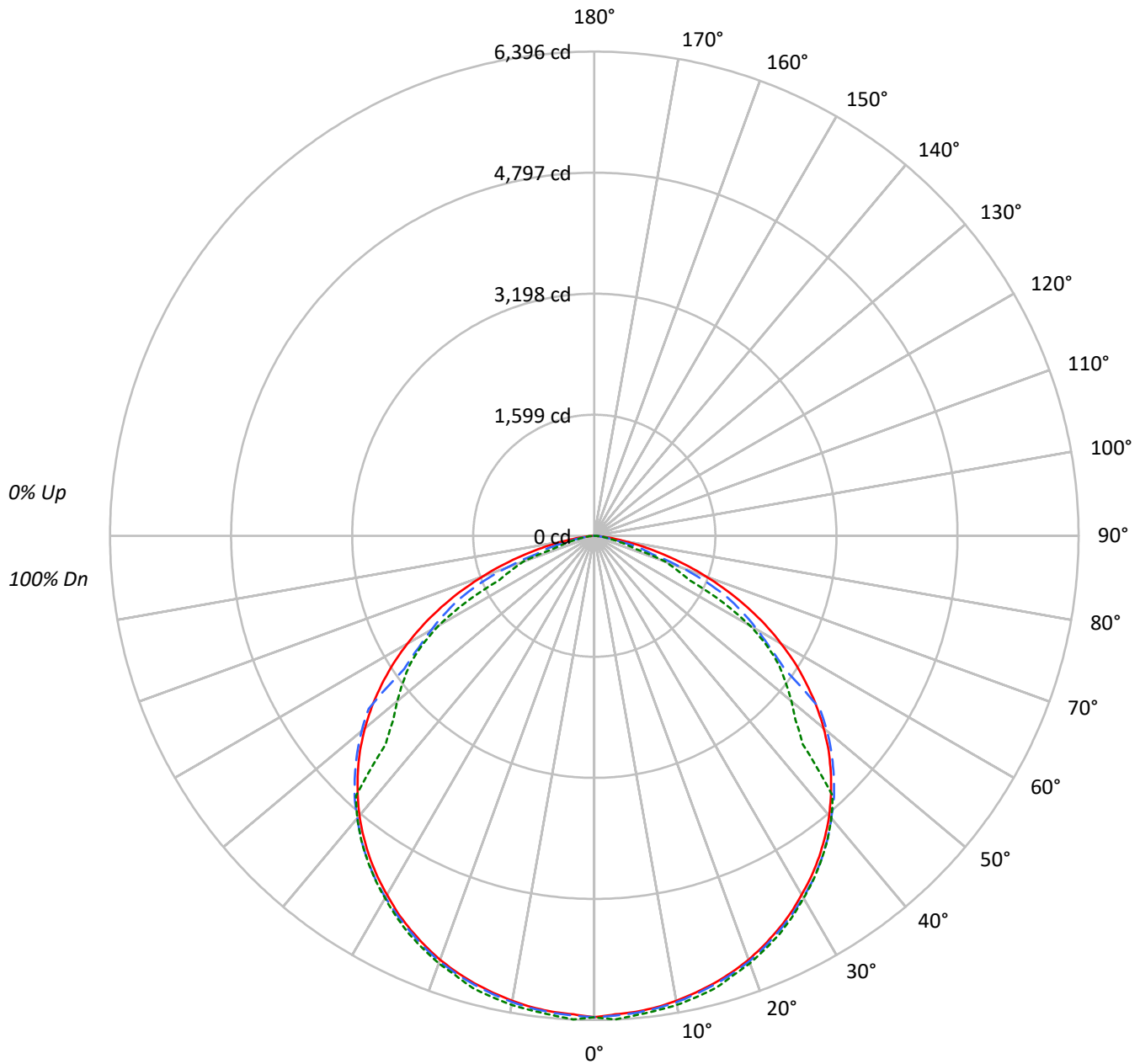
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730554

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730554

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-UNV-L840

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10267	10267	10267
5°	10230	10252	10302
10°	10229	10258	10317
15°	10228	10259	10342
20°	10241	10279	10327
25°	10229	10268	10330
30°	10210	10285	10308
35°	10205	10298	10306
40°	10173	10263	10263
45°	10086	10208	8894
50°	9930	10080	8534
55°	9649	8628	8382
60°	9196	8021	7658
65°	8504	7445	5304
70°	7405	5793	4726
75°	5849	3888	2540
80°	3765	1857	1583
85°	1549	1134	1247



TEST NUMBER: P730554

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.2	3.5
10°-20°	1738.6	10.1
20°-30°	2665.6	15.5
30°-40°	3267.1	19.0
40°-50°	3358.8	19.5
50°-60°	2866.6	16.7
60°-70°	1895.1	11.0
70°-80°	702.1	4.1
80°-90°	93.9	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°	5007.4	29.1
0°-40°	8274.5	48.1
0°-60°	14499.8	84.3
0°-90°	17191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6359	6359	6359	6359	6359	
5°	6312	6356	6326	6350	6357	600
15°	6119	6156	6137	6184	6187	1728
25°	5742	5772	5764	5815	5798	2647
35°	5177	5213	5225	5257	5228	3238
45°	4417	4461	4470	4464	3895	3404
55°	3428	3490	3065	2976	2978	3058
65°	2226	2244	1949	1603	1388	2195
75°	938	822	623	419	407	1006
85°	84	60	61	67	67	138
90°	0	0	0	0	0	



TEST NUMBER: P730554

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6358.9	6358.9	6358.9	6358.9	6358.9
2.5°	6327.9	6367.4	6344.1	6373.6	6396.0
5°	6311.7	6355.8	6325.6	6350.3	6356.6
7.5°	6283.8	6324.8	6296.9	6329.5	6324.8
10°	6238.9	6276.0	6256.7	6290.8	6293.0
12.5°	6181.6	6218.7	6200.9	6242.7	6241.9
15°	6118.8	6156.0	6137.4	6183.9	6187.0
17.5°	6045.3	6079.4	6065.4	6108.1	6091.0
20°	5960.1	5989.5	5982.6	6022.9	6010.4
22.5°	5855.6	5885.8	5878.9	5925.3	5906.7
25°	5741.8	5772.0	5763.5	5815.4	5798.4
27.5°	5618.7	5647.3	5646.5	5695.4	5669.1
30°	5476.2	5514.2	5516.5	5559.9	5528.9
32.5°	5335.4	5370.9	5381.0	5412.8	5386.5
35°	5177.4	5213.0	5224.6	5257.2	5228.5
37.5°	5007.0	5037.2	5058.1	5082.1	5059.7
40°	4826.6	4853.7	4869.3	4898.6	4869.3
42.5°	4625.3	4664.1	4685.8	4706.6	4658.7
45°	4417.1	4461.2	4470.5	4463.5	3895.2
47.5°	4196.4	4244.4	4249.9	3706.3	3601.8
50°	3953.3	4013.7	4012.9	3425.2	3397.4
52.5°	3700.1	3758.2	3755.9	3205.4	3186.8
55°	3427.6	3490.3	3065.2	2976.2	2977.8
57.5°	3149.6	3194.5	2750.2	2754.0	2702.9
60°	2847.7	2890.2	2483.8	2459.8	2371.5
62.5°	2545.0	2562.8	2226.0	2109.0	1941.0
65°	2226.0	2244.5	1948.8	1602.7	1388.2
67.5°	1898.5	1917.0	1617.4	1192.3	1176.0
70°	1568.6	1416.9	1227.2	993.4	1001.1
72.5°	1243.4	1088.6	802.1	769.6	555.9
75°	937.6	821.5	623.3	418.9	407.2
77.5°	652.7	566.0	333.7	285.7	267.1
80°	404.9	284.1	199.7	177.3	170.3
82.5°	205.2	163.4	108.4	108.4	108.4
85°	83.6	59.6	61.2	66.6	67.3
87.5°	17.8	24.0	29.4	30.2	29.4
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)