

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: P730570

Luminaire Tested: **HBLED-LD5-18HE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-FLI-UNV-L750
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18157.0 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

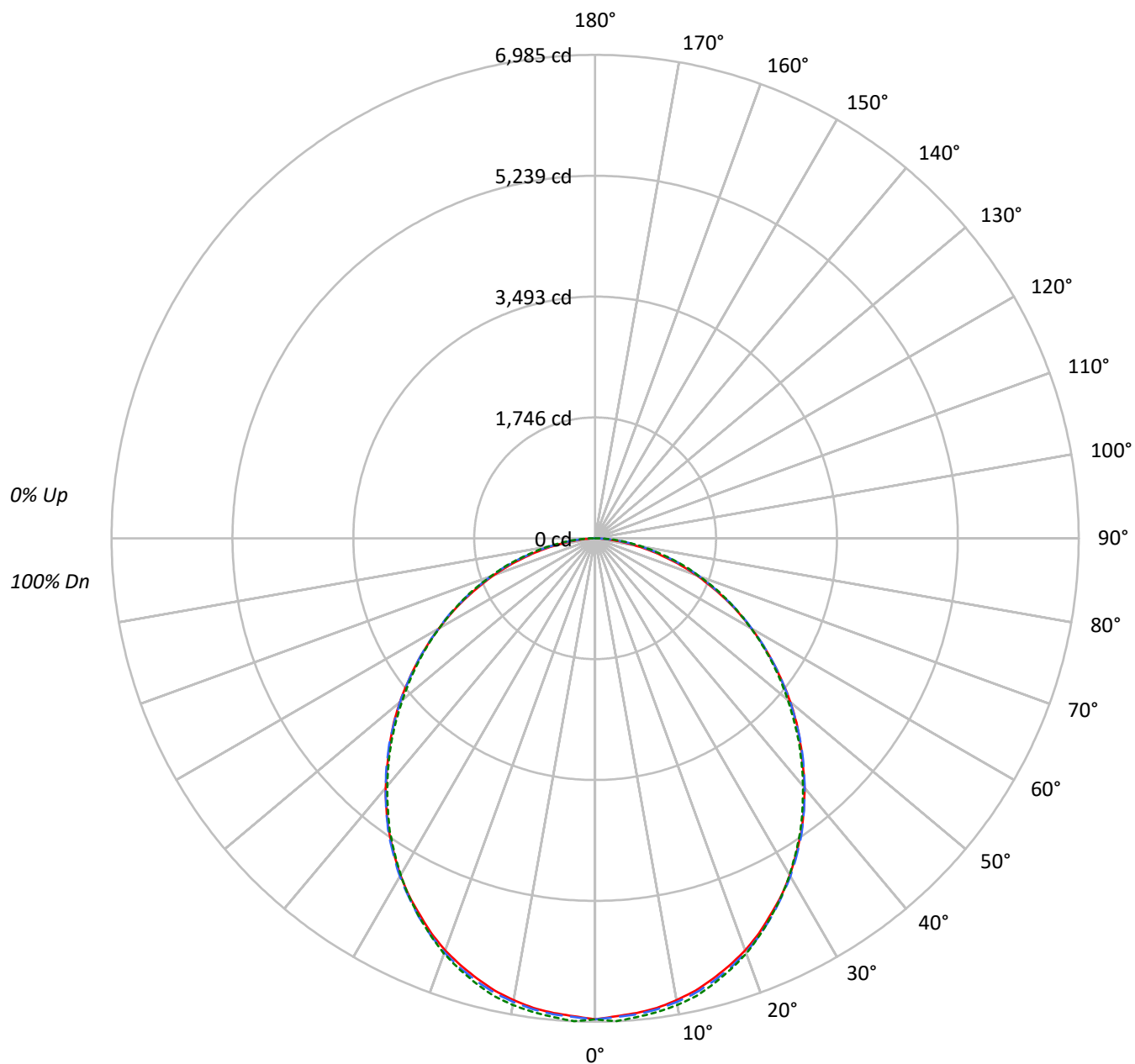
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11223	11223	11223
5°	11159	11191	11254
10°	11108	11153	11226
15°	11011	11071	11125
20°	10886	10938	10970
25°	10685	10745	10730
30°	10488	10516	10473
35°	10228	10254	10189
40°	9920	9920	9844
45°	9573	9600	9502
50°	9245	9229	9114
55°	8845	8846	8766
60°	8416	8426	8393
65°	7932	8011	8032
70°	7326	7527	7535
75°	6475	6894	7001
80°	5310	6037	6379
85°	3685	5069	5732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.4	3.6
10°-20°	1870.1	10.3
20°-30°	2779.1	15.3
30°-40°	3249.6	17.9
40°-50°	3239.9	17.8
50°-60°	2811.0	15.5
60°-70°	2076.3	11.4
70°-80°	1162.5	6.4
80°-90°	310.2	1.7
90°-100°	0.9	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°	5306.7	29.2
0°-40°	8556.2	47.1
0°-60°	14607.2	80.4
0°-90°	18156.0	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	18157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6951	6951	6951	6951	6951	
5°	6885	6928	6905	6935	6944	654
15°	6587	6633	6623	6655	6655	1858
25°	5998	6046	6032	6045	6023	2765
35°	5189	5235	5202	5201	5169	3241
45°	4193	4237	4204	4187	4161	3237
55°	3142	3164	3142	3137	3114	2810
65°	2076	2097	2097	2108	2102	2053
75°	1038	1069	1105	1113	1122	1105
85°	199	240	274	298	309	242
90°	0	4	5	12	11	8
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: HBLED-LD5-18HE-W-FLI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6951.0	6951.0	6951.0	6951.0	6951.0
2.5°	6913.0	6954.2	6925.4	6952.8	6984.7
5°	6885.2	6928.5	6904.6	6935.1	6943.9
7.5°	6844.5	6886.5	6863.5	6894.0	6903.3
10°	6775.5	6821.1	6802.9	6837.4	6847.2
12.5°	6695.1	6737.9	6726.0	6766.2	6772.9
15°	6587.2	6633.2	6623.0	6654.9	6655.3
17.5°	6467.9	6511.2	6503.7	6528.5	6527.5
20°	6335.8	6382.1	6366.2	6393.2	6384.7
22.5°	6179.3	6228.7	6208.8	6231.4	6210.2
25°	5997.5	6045.8	6031.6	6044.8	6022.8
27.5°	5821.6	5865.8	5836.6	5852.5	5829.1
30°	5625.3	5662.9	5640.4	5645.7	5617.4
32.5°	5404.8	5449.4	5422.0	5421.1	5391.1
35°	5189.1	5234.6	5202.4	5201.4	5169.2
37.5°	4950.4	4992.8	4954.8	4957.0	4919.4
40°	4706.8	4743.5	4706.8	4705.0	4670.6
42.5°	4442.4	4491.1	4457.5	4461.4	4415.5
45°	4192.7	4237.4	4204.2	4186.9	4161.3
47.5°	3943.9	3963.3	3935.9	3931.5	3895.2
50°	3680.4	3695.0	3674.2	3668.9	3628.3
52.5°	3408.1	3433.3	3406.8	3399.7	3372.8
55°	3142.0	3163.6	3142.4	3137.1	3114.1
57.5°	2874.1	2902.4	2880.8	2875.4	2856.9
60°	2606.3	2614.6	2609.4	2617.3	2599.2
62.5°	2340.1	2359.6	2365.8	2363.6	2349.4
65°	2076.2	2096.6	2097.0	2107.7	2102.3
67.5°	1806.2	1832.7	1840.2	1851.2	1856.1
70°	1551.9	1572.3	1594.5	1601.0	1596.2
72.5°	1296.0	1328.7	1353.5	1359.2	1380.0
75°	1037.9	1068.8	1105.1	1113.0	1122.3
77.5°	798.3	839.4	872.1	882.8	894.3
80°	571.1	616.6	649.3	663.9	686.1
82.5°	374.8	421.3	454.4	469.0	496.0
85°	198.9	240.5	273.6	297.9	309.4
87.5°	58.8	94.1	113.1	120.2	130.4
90°	0.0	4.4	5.3	11.9	11.1
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)