

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: P730552

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730552
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-L750
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: 18443.0 lumens
Efficiency: N/A
Efficacy: 167.4 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

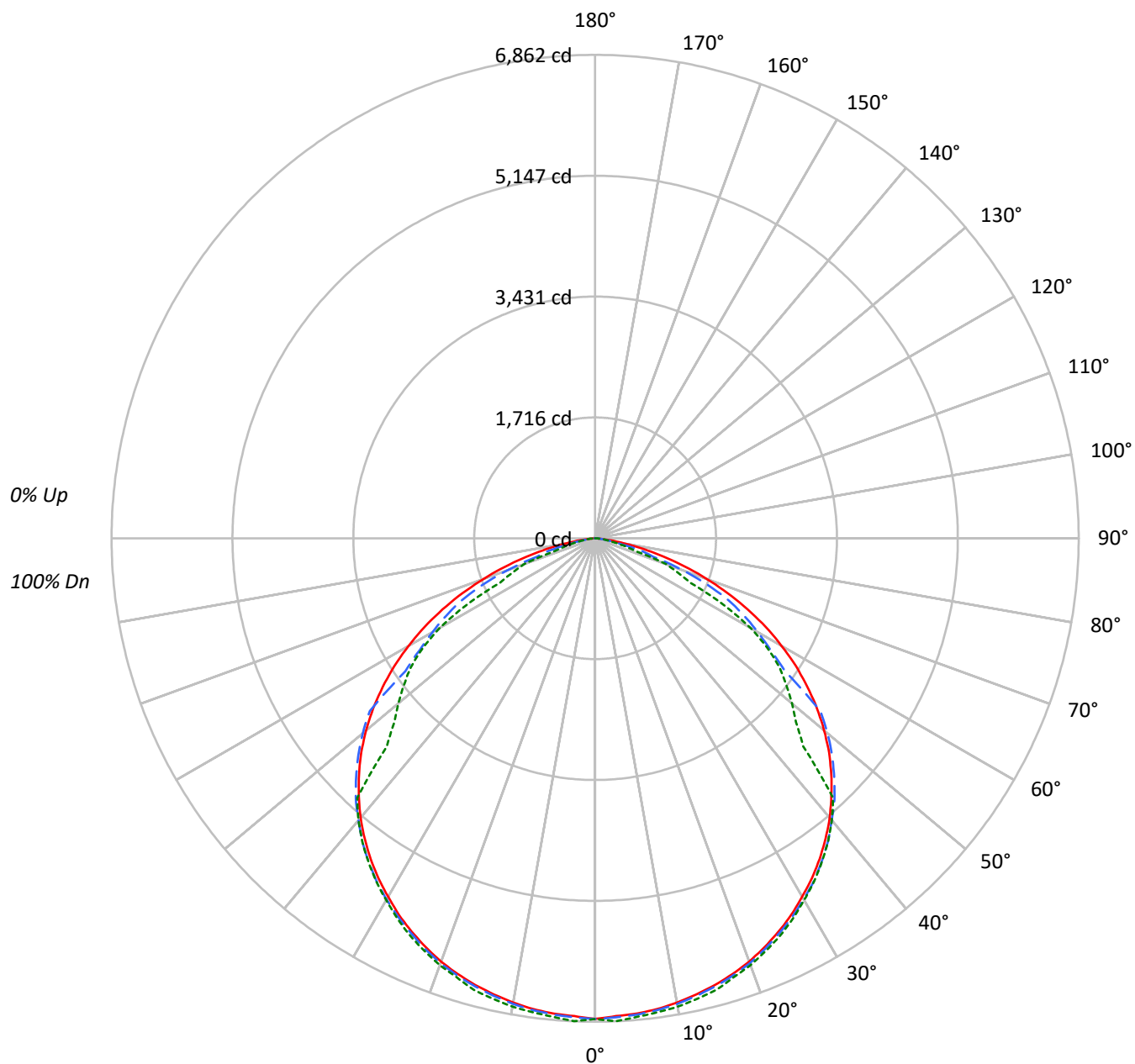
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11015	11015	11015
5°	10975	10999	11053
10°	10974	11005	11069
15°	10973	11006	11095
20°	10987	11028	11079
25°	10974	11015	11082
30°	10953	11034	11058
35°	10948	11048	11056
40°	10914	11010	11010
45°	10820	10951	9542
50°	10653	10814	9155
55°	10351	9257	8993
60°	9865	8605	8216
65°	9124	7987	5690
70°	7944	6215	5070
75°	6275	4172	2726
80°	4039	1993	1699
85°	1662	1217	1338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.1	3.5
10°-20°	1865.2	10.1
20°-30°	2859.7	15.5
30°-40°	3505.0	19.0
40°-50°	3603.4	19.5
50°-60°	3075.3	16.7
60°-70°	2033.2	11.0
70°-80°	753.3	4.1
80°-90°	100.7	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°	5372.1	29.1
0°-40°	8877.1	48.1
0°-60°	15555.8	84.3
0°-90°	18443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6822	6822	6822	6822	6822	
5°	6771	6819	6786	6813	6820	644
15°	6564	6604	6584	6634	6638	1854
25°	6160	6192	6183	6239	6221	2840
35°	5554	5593	5605	5640	5609	3474
45°	4739	4786	4796	4789	4179	3652
55°	3677	3744	3288	3193	3195	3281
65°	2388	2408	2091	1719	1489	2355
75°	1006	881	669	449	437	1079
85°	90	64	66	71	72	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6822.0	6822.0	6822.0	6822.0	6822.0
2.5°	6788.8	6831.2	6806.2	6837.7	6861.8
5°	6771.3	6818.7	6786.3	6812.8	6819.5
7.5°	6741.4	6785.4	6755.5	6790.4	6785.4
10°	6693.3	6733.1	6712.4	6748.9	6751.3
12.5°	6631.8	6671.6	6652.5	6697.4	6696.5
15°	6564.5	6604.4	6584.4	6634.3	6637.6
17.5°	6485.6	6522.2	6507.2	6552.9	6534.6
20°	6394.2	6425.8	6418.3	6461.5	6448.2
22.5°	6282.0	6314.5	6307.0	6356.9	6336.9
25°	6160.0	6192.4	6183.2	6238.9	6220.6
27.5°	6027.9	6058.6	6057.8	6110.2	6081.9
30°	5875.1	5915.8	5918.3	5964.8	5931.5
32.5°	5723.9	5762.1	5772.9	5807.0	5778.8
35°	5554.5	5592.6	5605.1	5640.0	5609.3
37.5°	5371.7	5404.1	5426.5	5452.2	5428.2
40°	5178.1	5207.2	5223.9	5255.4	5223.9
42.5°	4962.2	5003.8	5027.0	5049.4	4997.9
45°	4738.8	4786.1	4796.1	4788.6	4178.9
47.5°	4502.1	4553.6	4559.4	3976.3	3864.1
50°	4241.2	4306.0	4305.2	3674.7	3644.9
52.5°	3969.6	4031.9	4029.4	3438.8	3418.9
55°	3677.2	3744.5	3288.4	3193.0	3194.6
57.5°	3379.0	3427.2	2950.4	2954.5	2899.7
60°	3055.1	3100.7	2664.7	2638.9	2544.2
62.5°	2730.3	2749.4	2388.1	2262.6	2082.4
65°	2388.1	2408.0	2090.7	1719.4	1489.3
67.5°	2036.8	2056.7	1735.2	1279.2	1261.7
70°	1682.8	1520.0	1316.6	1065.7	1074.0
72.5°	1334.0	1167.9	860.5	825.6	596.4
75°	1005.9	881.3	668.7	449.4	436.9
77.5°	700.2	607.2	358.0	306.5	286.6
80°	434.4	304.8	214.3	190.2	182.7
82.5°	220.1	175.3	116.3	116.3	116.3
85°	89.7	64.0	65.7	71.4	72.2
87.5°	19.1	25.7	31.6	32.4	31.6
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)