

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: P730584

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-WG-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18050.0 lumens
Efficiency: N/A
Efficacy: 163.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

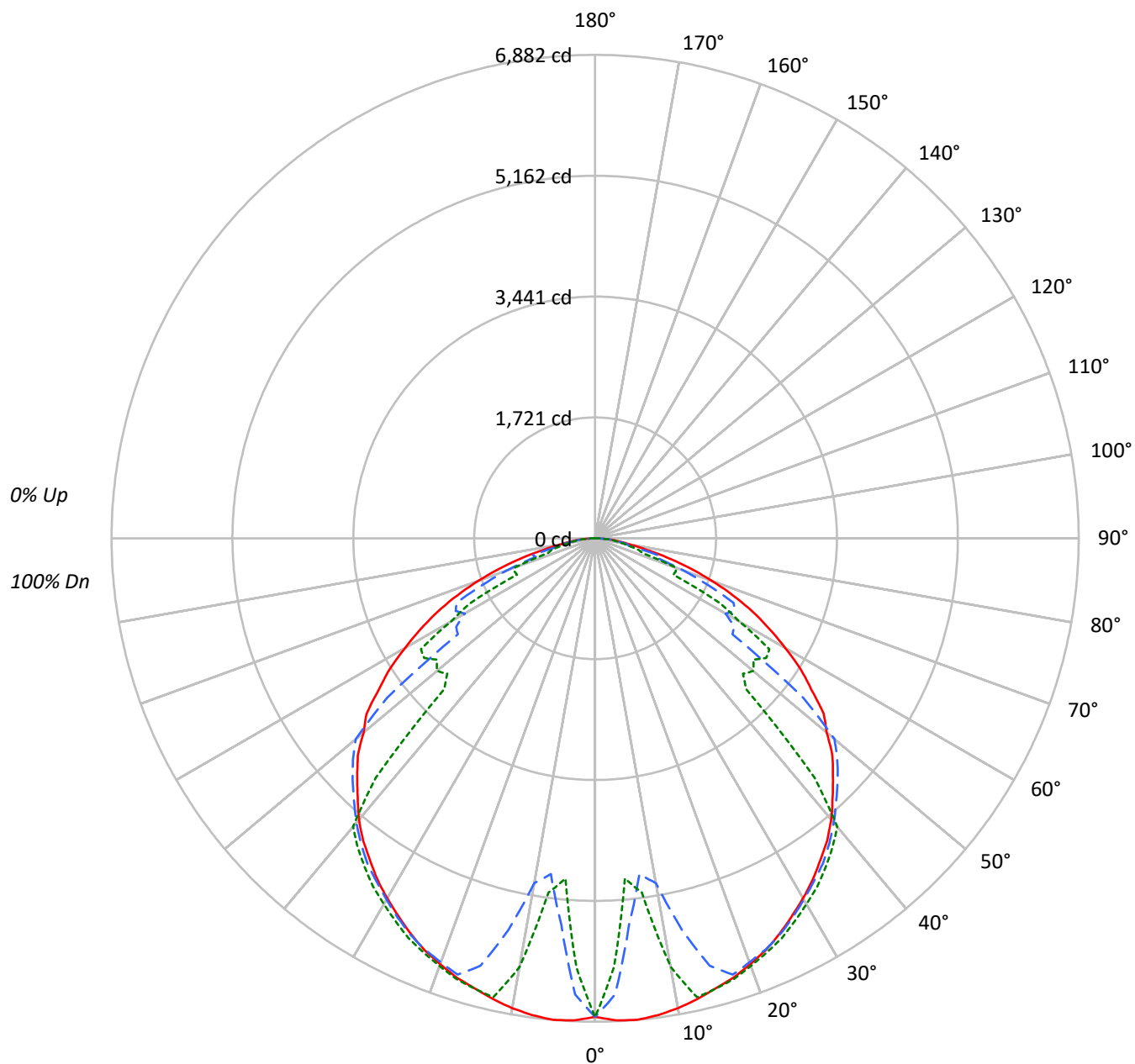
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	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	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11001	11001	11001
5°	11154	8960	7880
10°	11134	8172	10163
15°	11085	10532	11095
20°	11085	11035	11133
25°	11065	11090	11192
30°	11033	11070	11212
35°	11016	11138	11268
40°	11017	11137	11297
45°	10931	11145	6926
50°	10807	11167	7381
55°	10579	6715	8366
60°	10092	6921	7661
65°	9456	8311	4687
70°	8350	6296	5746
75°	6653	5723	3984
80°	4583	4136	3424
85°	4390	3818	3622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.8	3.0
10°-20°	1706.9	9.5
20°-30°	2808.1	15.6
30°-40°	3530.9	19.6
40°-50°	3462.9	19.2
50°-60°	2869.2	15.9
60°-70°	2023.7	11.2
70°-80°	882.9	4.9
80°-90°	220.6	1.2
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°	5059.8	28.0
0°-40°	8590.7	47.6
0°-60°	14922.8	82.7
0°-90°	18050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6813	6813	6813	6813	6813	
5°	6882	6405	5528	5013	4862	653
15°	6632	4606	6301	6658	6637	1875
25°	6211	5683	6225	6267	6282	2863
35°	5589	5586	5651	5688	5717	3502
45°	4787	4802	4881	4323	3033	3695
55°	3758	3881	2385	2712	2972	3363
65°	2475	2621	2175	1673	1227	2434
75°	1066	1045	917	600	639	1144
85°	237	211	206	197	196	246
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6813.3	6813.3	6813.3	6813.3	6813.3
2.5°	6869.5	6726.9	6500.4	6215.3	6114.3
5°	6881.7	6405.1	5528.5	5012.8	4862.1
7.5°	6846.7	5821.0	4819.8	4928.0	5087.8
10°	6791.3	5307.7	4984.3	5864.2	6199.0
12.5°	6720.4	4851.5	5710.2	6624.3	6691.0
15°	6631.6	4605.5	6300.9	6657.7	6637.3
17.5°	6556.6	4749.7	6512.7	6590.9	6576.2
20°	6451.5	5037.3	6422.2	6485.0	6479.2
22.5°	6345.6	5377.8	6336.7	6381.5	6381.5
25°	6211.2	5683.3	6225.1	6266.6	6282.1
27.5°	6063.7	5859.2	6085.7	6119.9	6147.6
30°	5917.9	5884.6	5937.5	5981.5	6014.0
32.5°	5764.0	5751.0	5792.5	5838.9	5880.4
35°	5588.8	5585.5	5650.7	5688.2	5716.7
37.5°	5424.2	5412.9	5473.1	5525.3	5547.3
40°	5227.1	5227.1	5284.1	5337.0	5359.9
42.5°	5002.2	5034.0	5078.0	5132.5	4622.6
45°	4787.1	4801.8	4880.8	4322.8	3033.1
47.5°	4580.2	4598.9	4673.9	2778.9	2854.7
50°	4302.4	4387.1	4445.8	2770.8	2938.6
52.5°	4099.6	4136.2	3732.1	2743.1	2837.6
55°	3758.2	3881.2	2385.4	2712.1	2972.0
57.5°	3466.5	3556.2	2345.5	2778.9	2940.2
60°	3125.2	3262.0	2143.4	2681.2	2372.4
62.5°	2797.6	2928.0	2238.0	2110.1	2009.0
65°	2475.0	2620.8	2175.3	1673.4	1226.9
67.5°	2121.4	1985.4	1735.3	1178.9	1240.8
70°	1768.7	1386.6	1333.7	1318.2	1217.1
72.5°	1406.2	1011.9	885.6	989.1	708.0
75°	1066.5	1045.3	917.4	599.6	638.7
77.5°	739.7	754.4	491.2	584.9	485.5
80°	492.9	426.9	444.8	373.1	368.3
82.5°	341.4	348.7	292.5	283.5	287.6
85°	237.0	211.0	206.1	197.2	195.5
87.5°	79.0	92.1	85.6	77.4	82.3
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)