

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: P730578

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19059.0 lumens
Efficiency: N/A
Efficacy: 172.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

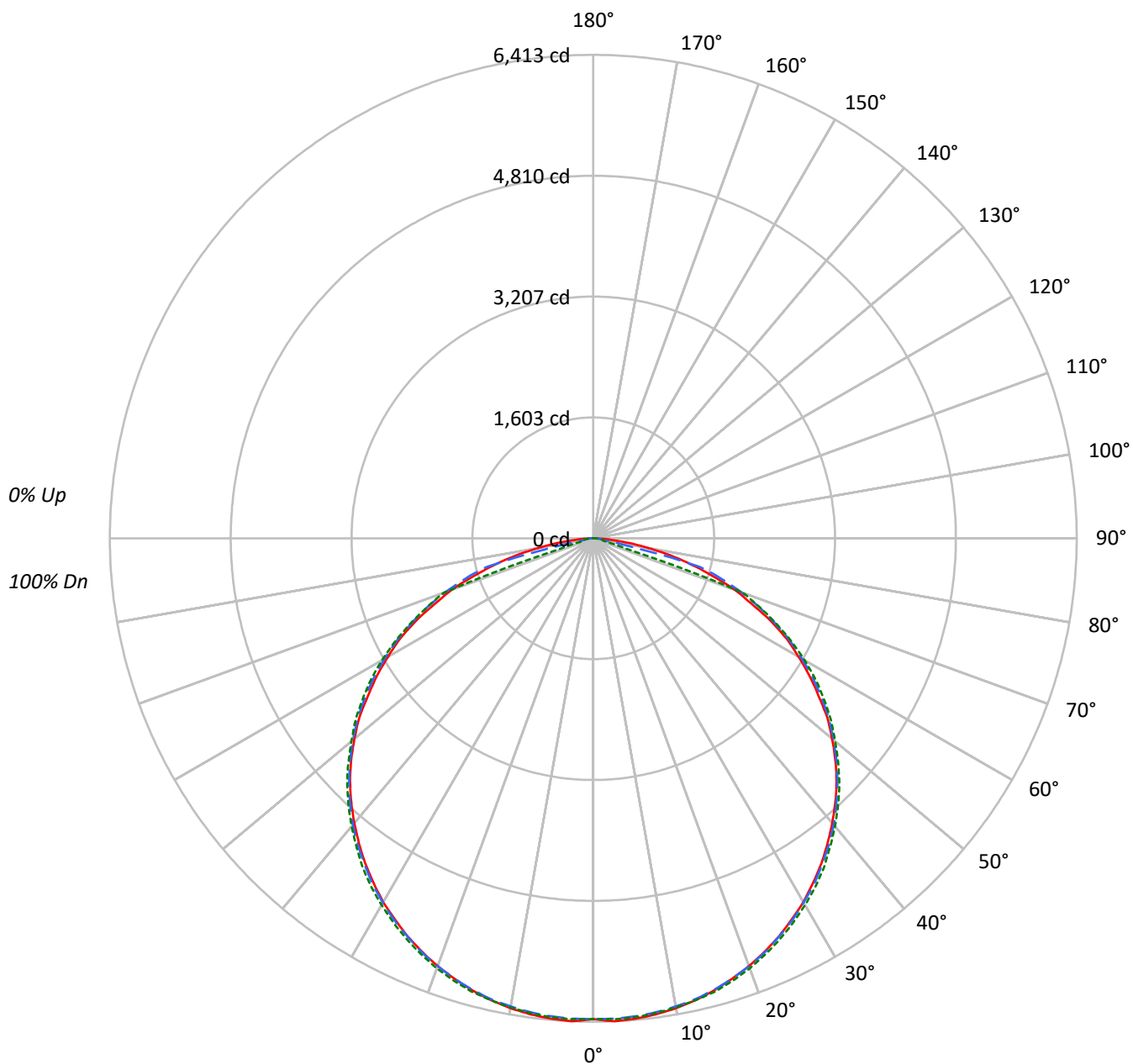
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10297	10297	10297
5°	10371	10318	10337
10°	10377	10340	10361
15°	10376	10361	10409
20°	10375	10377	10431
25°	10380	10385	10448
30°	10391	10404	10473
35°	10389	10423	10510
40°	10391	10457	10514
45°	10420	10459	10543
50°	10389	10449	10517
55°	10274	10418	10530
60°	10157	10323	10451
65°	9933	10139	10215
70°	9430	9832	9953
75°	8411	9120	1099
80°	6763	1136	1202
85°	4500	1475	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.7	3.2
10°-20°	1750.3	9.2
20°-30°	2689.2	14.1
30°-40°	3310.5	17.4
40°-50°	3529.3	18.5
50°-60°	3299.2	17.3
60°-70°	2611.8	13.7
70°-80°	1111.2	5.8
80°-90°	151.7	0.8
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°	5045.2	26.5
0°-40°	8355.8	43.8
0°-60°	15184.3	79.7
0°-90°	19059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6378	6378	6378	6378	6378	
5°	6399	6371	6366	6341	6378	608
15°	6207	6196	6199	6182	6227	1753
25°	5826	5819	5829	5826	5865	2686
35°	5271	5262	5288	5306	5332	3298
45°	4563	4538	4580	4599	4617	3516
55°	3650	3661	3701	3714	3741	3268
65°	2600	2623	2654	2674	2674	2558
75°	1348	1406	1462	239	176	1426
85°	243	72	80	82	81	317
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6377.7	6377.7	6377.7	6377.7	6377.7
2.5°	6413.2	6383.4	6377.7	6352.1	6386.2
5°	6399.0	6370.6	6366.3	6340.7	6377.7
7.5°	6369.2	6346.4	6343.6	6316.6	6353.5
10°	6329.4	6308.1	6306.6	6282.5	6319.4
12.5°	6275.4	6256.9	6262.6	6238.5	6275.4
15°	6207.2	6195.8	6198.7	6181.6	6227.1
17.5°	6124.8	6119.1	6124.8	6112.0	6153.2
20°	6038.1	6031.0	6039.6	6032.4	6070.8
22.5°	5937.3	5928.7	5945.8	5935.8	5971.4
25°	5826.4	5819.3	5829.3	5826.4	5864.8
27.5°	5700.0	5692.9	5714.2	5715.6	5745.5
30°	5573.5	5563.6	5580.7	5587.8	5617.6
32.5°	5423.0	5420.1	5445.7	5451.4	5482.6
35°	5270.9	5262.4	5288.0	5306.5	5332.0
37.5°	5104.7	5103.3	5130.3	5145.9	5158.7
40°	4930.0	4922.9	4961.2	4976.8	4988.2
42.5°	4752.4	4736.7	4773.7	4793.6	4806.4
45°	4563.4	4537.8	4580.5	4598.9	4617.4
47.5°	4356.0	4333.2	4374.4	4394.3	4407.1
50°	4135.8	4114.5	4159.9	4177.0	4186.9
52.5°	3914.1	3892.8	3941.1	3955.3	3979.5
55°	3649.9	3661.2	3701.0	3713.8	3740.8
57.5°	3405.5	3415.5	3453.8	3469.4	3500.7
60°	3145.5	3161.1	3196.7	3212.3	3236.4
62.5°	2894.0	2895.5	2938.1	2945.2	2963.7
65°	2599.9	2622.7	2653.9	2673.8	2673.8
67.5°	2271.8	2327.2	2381.2	2376.9	2388.3
70°	1997.6	2018.9	2082.8	2092.7	2108.4
72.5°	1653.7	1709.1	1780.2	1329.8	451.8
75°	1348.3	1406.5	1461.9	238.7	176.2
77.5°	1047.1	1092.5	485.9	136.4	133.5
80°	727.4	799.9	122.2	125.0	129.3
82.5°	478.8	390.7	100.9	110.8	112.2
85°	242.9	72.5	79.6	82.4	81.0
87.5°	79.6	44.0	45.5	46.9	48.3
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)