

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: P730608

Luminaire Tested: **HBLED-LD5-18SE-N-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18040.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

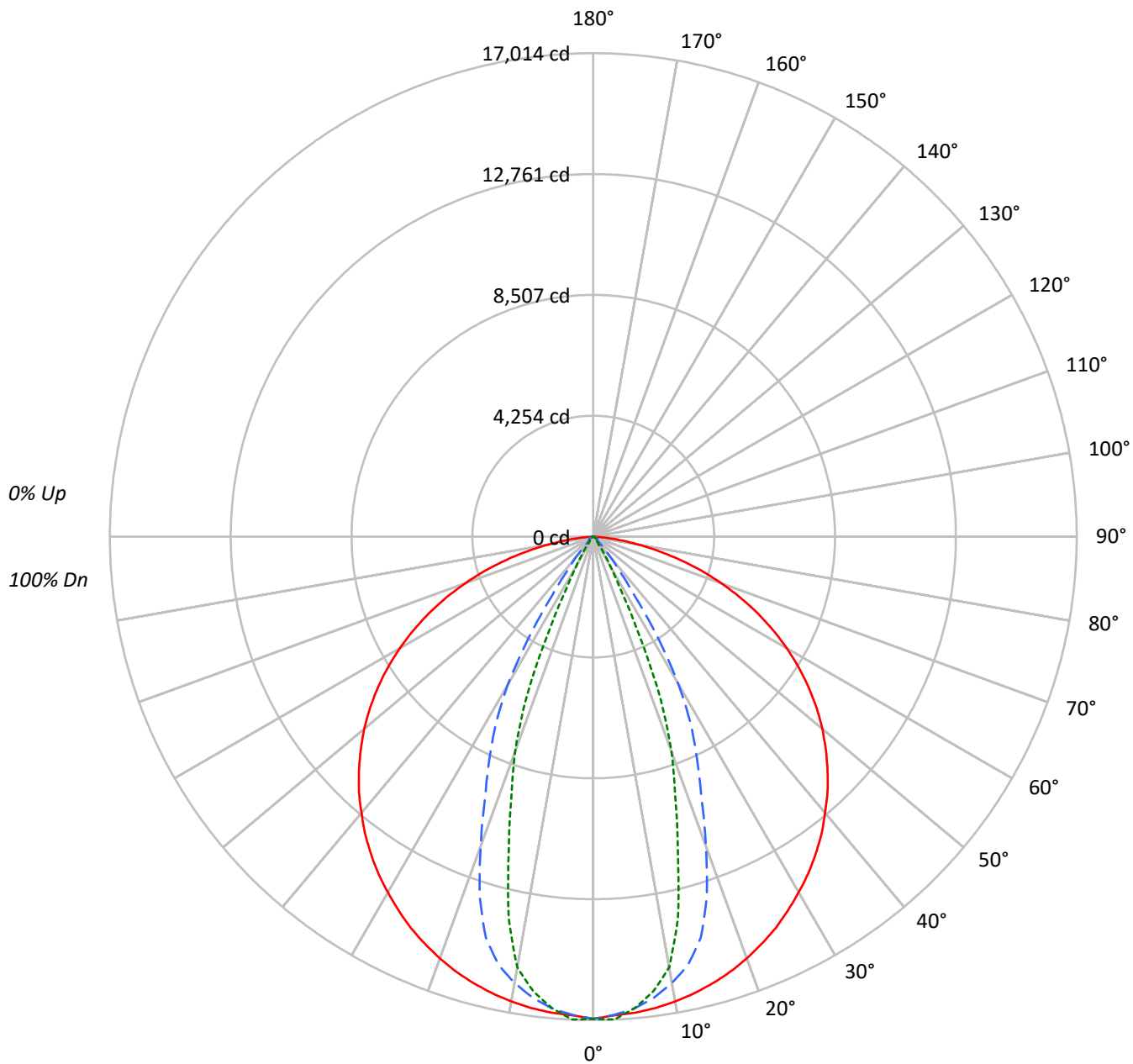
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730608

CATALOG NUMBER: HBLED-LD5-18SE-N-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730608

CATALOG NUMBER: HBLED-LD5-18SE-N-UNV-L840

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	98	93	89	102	97	92	88		93	89	86		90	87	84		87	85	82
3	98	90	84	79	96	88	83	78		86	81	77		83	79	76		81	77	74
4	92	82	76	70	90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	76	69	64	84	75	68	63		73	67	63		71	66	62		70	65	62
6	81	70	63	58	79	70	63	58		68	62	58		66	61	57		65	60	57
7	76	66	58	54	75	65	58	53		63	57	53		62	57	53		61	56	52
8	72	61	54	49	71	61	54	49		59	53	49		58	53	49		57	52	49
9	68	57	51	46	67	57	50	46		56	50	46		55	49	46		54	49	45
10	65	54	47	43	64	53	47	43		53	47	43		52	46	43		51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27404	27404	27404
5°	27258	27017	27005
10°	27241	26151	25234
15°	27202	24431	19204
20°	27139	19916	13823
25°	27070	15400	6809
30°	26950	11192	2208
35°	26886	4965	568
40°	26746	2017	383
45°	26626	566	407
50°	26418	402	452
55°	26038	477	193
60°	25395	532	118
65°	24351	339	139
70°	22622	301	172
75°	19790	227	236
80°	14797	278	338
85°	7329	358	448



TEST NUMBER: P730608

CATALOG NUMBER: HBLED-LD5-18SE-N-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1575.1	8.7
10°-20°	3938.6	21.8
20°-30°	4266.1	23.6
30°-40°	3159.2	17.5
40°-50°	2275.4	12.6
50°-60°	1408.9	7.8
60°-70°	866.5	4.8
70°-80°	456.8	2.5
80°-90°	93.5	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°	9779.7	54.2
0°-40°	12938.9	71.7
0°-60°	16623.3	92.1
0°-90°	18040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16973	16973	16973	16973	16973	
5°	16818	16880	16669	16681	16662	###
15°	16274	15896	14616	12430	11489	4594
25°	15195	13918	8644	5438	3822	7001
35°	13641	9616	2519	593	288	8534
45°	11661	5418	248	179	178	8993
55°	9250	1116	170	153	69	8257
65°	6374	118	89	56	36	6289
75°	3172	28	36	48	38	3351
85°	396	10	19	29	24	598
90°	0	0	0	0	0	



TEST NUMBER: P730608

CATALOG NUMBER: HBLED-LD5-18SE-N-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16972.8	16972.8	16972.8	16972.8	16972.8
2.5°	16863.8	16971.3	16844.5	16939.0	17014.0
5°	16817.8	16880.0	16669.3	16681.4	16662.0
7.5°	16737.1	16722.6	16368.1	16213.1	16145.3
10°	16615.2	16519.1	15950.7	15626.9	15391.1
12.5°	16457.7	16243.0	15429.9	14400.4	13761.0
15°	16273.6	15895.8	14616.0	12429.5	11488.8
17.5°	16054.0	15518.7	13285.3	10417.4	9577.7
20°	15794.8	15098.0	11591.3	8863.1	8045.2
22.5°	15505.7	14586.1	9945.9	7366.1	6199.4
25°	15194.9	13918.4	8644.3	5438.0	3822.3
27.5°	14835.6	13060.1	7423.5	3203.1	1950.8
30°	14455.3	12026.5	6003.2	1723.0	1184.5
32.5°	14071.8	10855.0	4247.9	1076.3	671.8
35°	13640.6	9616.4	2519.1	592.6	288.3
37.5°	13190.9	8481.2	1488.9	269.7	184.9
40°	12689.5	7443.7	956.8	179.2	181.6
42.5°	12205.1	6476.4	538.6	176.8	180.1
45°	11660.8	5417.8	247.9	179.2	178.4
47.5°	11098.0	4320.5	160.6	180.9	180.9
50°	10517.5	3089.2	159.9	184.9	180.1
52.5°	9904.7	1927.4	166.3	184.1	147.8
55°	9249.9	1115.9	169.5	153.4	68.7
57.5°	8571.6	658.0	171.2	88.0	38.8
60°	7864.3	364.1	164.7	65.4	36.4
62.5°	7135.2	173.6	130.0	61.4	35.5
65°	6373.8	117.9	88.8	56.5	36.4
67.5°	5583.3	91.2	70.2	53.3	37.1
70°	4792.0	67.8	63.8	53.3	36.4
72.5°	3987.9	46.0	53.3	54.1	36.4
75°	3172.3	27.5	36.4	47.7	37.9
77.5°	2364.1	16.9	28.2	49.2	46.0
80°	1591.4	14.5	29.9	46.0	36.4
82.5°	934.2	13.0	29.1	35.5	29.1
85°	395.6	10.5	19.3	29.1	24.2
87.5°	74.3	8.9	15.4	23.4	21.0
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)