

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: P730530

Luminaire Tested: **HBLED-LD5-18HE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CLI-UNV-L840
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16982.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

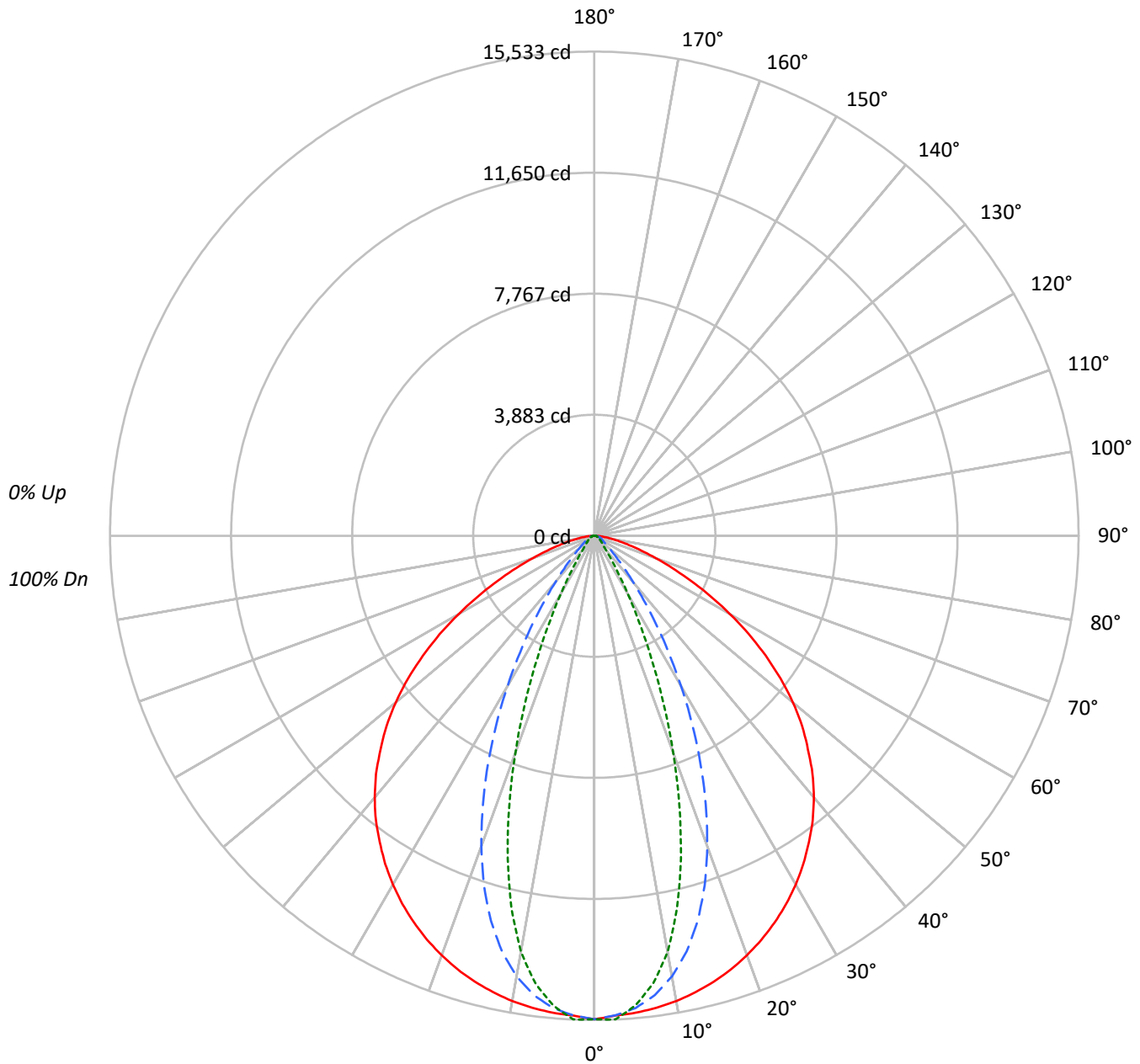
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730530

CATALOG NUMBER: HBLED-LD5-18HE-N-CLI-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730530

CATALOG NUMBER: HBLED-LD5-18HE-N-CLI-UNV-L840

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	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	75		81	77	74
4	92	82	75	70	90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	76	69	63	84	75	68	63		73	67	62		71	66	62		69	65	61
6	81	70	63	58	79	69	62	57		68	62	57		66	61	57		65	60	56
7	76	65	58	53	75	64	58	53		63	57	52		62	56	52		60	56	52
8	72	61	54	49	70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	57	50	45	67	56	50	45		55	49	45		54	49	45		53	48	45
10	64	53	47	42	63	53	46	42		52	46	42		51	46	42		50	45	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25045	25045	25045
5°	24895	24647	24517
10°	24853	23531	22205
15°	24753	21389	17933
20°	24604	18200	12710
25°	24384	14351	7679
30°	24088	10358	3947
35°	23653	6772	1971
40°	23092	4067	1150
45°	22133	2429	860
50°	20875	1588	722
55°	18893	1205	630
60°	16236	1026	575
65°	13060	936	543
70°	9839	1003	540
75°	7237	953	555
80°	5294	949	608
85°	3966	1150	787



TEST NUMBER: P730530

CATALOG NUMBER: HBLED-LD5-18HE-N-CLI-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1428.5	8.4
10°-20°	3553.9	20.9
20°-30°	3936.5	23.2
30°-40°	3153.8	18.6
40°-50°	2251.4	13.3
50°-60°	1446.1	8.5
60°-70°	783.7	4.6
70°-80°	335.0	2.0
80°-90°	92.9	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°	8919.0	52.5
0°-40°	12072.9	71.1
0°-60°	15770.4	92.9
0°-90°	16982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15512	15512	15512	15512	15512	
5°	15360	15417	15207	15159	15127	###
15°	14808	14345	12796	11308	10728	4178
25°	13687	12069	8056	5248	4311	6306
35°	12000	8680	3436	1386	1000	7503
45°	9693	5011	1064	453	377	7471
55°	6712	2240	428	263	224	5981
65°	3418	920	245	169	142	3423
75°	1160	337	153	106	89	1289
85°	214	89	62	52	42	261
90°	0	0	0	0	0	



TEST NUMBER: P730530

CATALOG NUMBER: HBLED-LD5-18HE-N-CLI-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15511.8	15511.8	15511.8	15511.8	15511.8
2.5°	15409.7	15506.1	15402.3	15466.8	15533.0
5°	15359.9	15417.1	15207.0	15158.8	15127.0
7.5°	15273.2	15256.9	14862.3	14606.6	14483.2
10°	15158.8	15026.5	14352.4	13790.4	13543.7
12.5°	14995.5	14722.6	13662.1	12675.1	12256.9
15°	14808.4	14345.1	12796.1	11308.3	10728.2
17.5°	14584.5	13903.9	11760.9	9842.6	9077.0
20°	14319.8	13371.3	10592.6	8285.3	7397.2
22.5°	14024.1	12756.9	9341.7	6733.0	5780.4
25°	13687.4	12068.9	8055.8	5248.5	4310.6
27.5°	13323.9	11305.1	6777.2	3921.7	3066.2
30°	12920.2	10478.2	5555.7	2827.7	2116.9
32.5°	12479.9	9599.1	4420.9	1988.6	1447.8
35°	12000.3	8680.0	3435.5	1385.6	1000.0
37.5°	11509.3	7742.0	2594.8	979.6	717.4
40°	10956.1	6807.3	1929.8	717.4	545.7
42.5°	10362.2	5890.7	1428.2	552.3	442.0
45°	9693.1	5010.7	1063.8	452.7	376.7
47.5°	9044.4	4190.5	808.0	385.6	327.6
50°	8310.7	3450.3	632.4	336.6	287.6
52.5°	7532.1	2799.1	513.1	296.6	253.3
55°	6711.8	2240.2	428.1	263.1	223.9
57.5°	5880.9	1774.5	366.0	234.4	199.4
60°	5027.9	1419.1	317.8	210.0	178.1
62.5°	4195.4	1134.9	277.8	188.7	159.3
65°	3418.4	919.9	245.1	169.1	142.1
67.5°	2700.2	727.1	228.8	151.9	128.3
70°	2084.2	566.2	212.4	135.6	114.4
72.5°	1579.3	434.7	188.0	120.9	101.3
75°	1160.1	336.6	152.8	106.2	89.0
77.5°	830.1	259.0	124.2	92.3	76.8
80°	569.4	192.9	102.1	79.2	65.4
82.5°	370.1	136.5	82.5	65.4	53.9
85°	214.1	89.0	62.1	51.5	42.5
87.5°	92.3	49.0	42.5	38.4	32.7
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)