

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: P730514

Luminaire Tested: **HBLED-LD5-18HE-N-CL-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CL-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17480.1 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

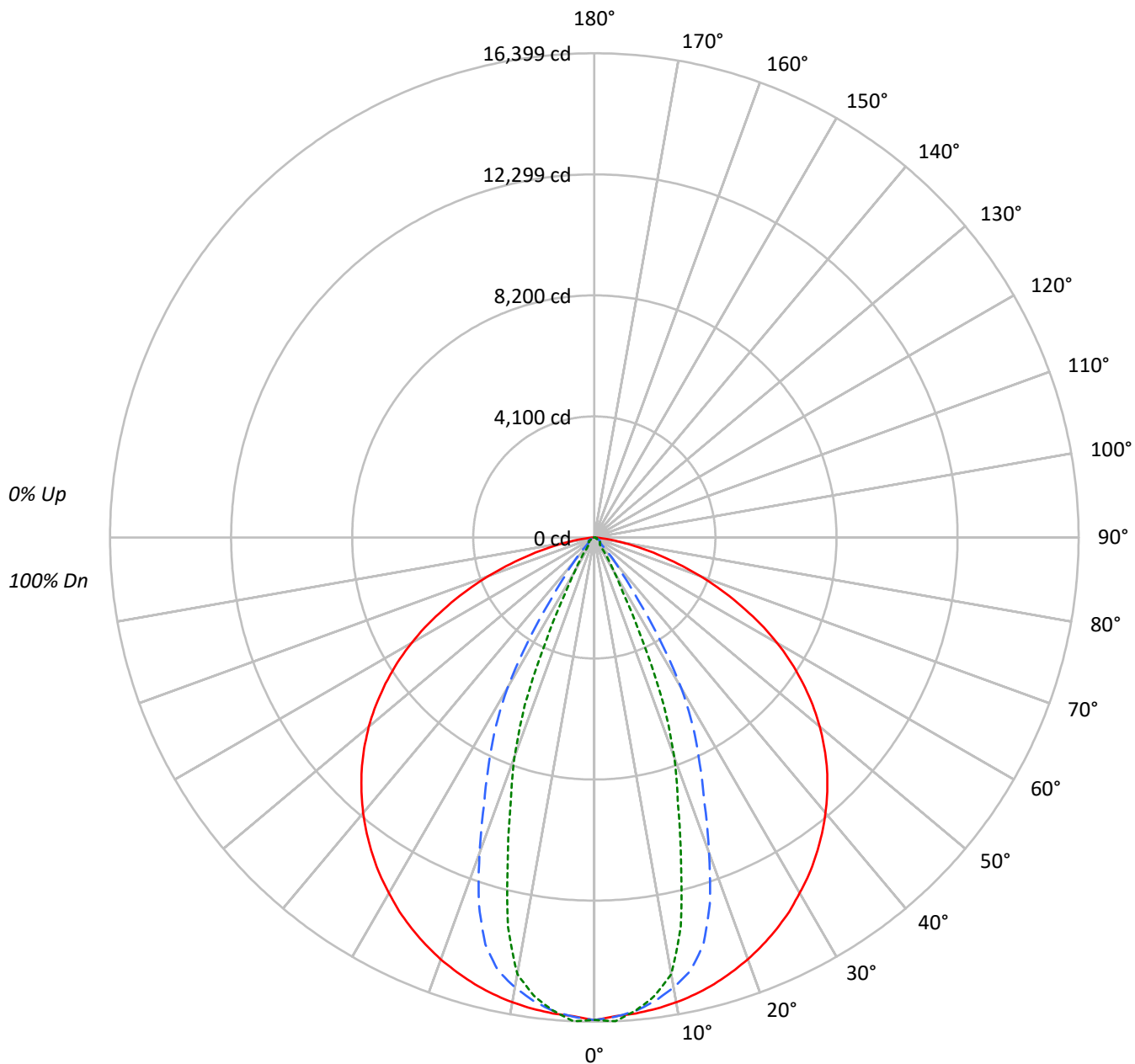
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730514

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L735

Luminous Intensity Polar Plot





TEST NUMBER: P730514

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L735

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	109	105	103	109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90	102	97	92	89		94	90	87		91	87	85		88	85	83
3	98	90	84	79	96	89	83	79		86	81	77		83	79	76		81	78	75
4	92	83	76	71	90	82	75	71		79	74	70		77	73	69		75	71	68
5	86	76	69	64	85	75	69	64		73	68	63		72	67	63		70	66	62
6	81	71	64	59	80	70	63	58		68	62	58		67	62	58		65	61	57
7	77	66	59	54	75	65	58	54		64	58	53		62	57	53		61	56	53
8	72	61	55	50	71	61	54	50		60	54	49		59	53	49		58	53	49
9	69	58	51	46	67	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43	64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26389	26389	26389
5°	26227	26090	26071
10°	26209	25369	24620
15°	26179	23856	18931
20°	26128	19522	13579
25°	26046	15041	6900
30°	25923	10977	2510
35°	25831	5041	874
40°	25672	2288	603
45°	25443	854	611
50°	25038	620	643
55°	24297	652	490
60°	23089	697	432
65°	20939	531	351
70°	17953	383	324
75°	13722	339	308
80°	8586	319	335
85°	2712	372	450



TEST NUMBER: P730514

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L735

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1521.6	8.7
10°-20°	3833.1	21.9
20°-30°	4174.5	23.9
30°-40°	3122.7	17.9
40°-50°	2245.3	12.8
50°-60°	1379.0	7.9
60°-70°	793.5	4.5
70°-80°	354.2	2.0
80°-90°	56.2	0.3
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°	9529.2	54.5
0°-40°	12651.9	72.4
0°-60°	16276.2	93.1
0°-90°	17480.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17480.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16344	16344	16344	16344	16344	
5°	16182	16258	16098	16112	16086	###
15°	15662	15362	14272	12257	11325	4421
25°	14620	13572	8443	5417	3873	6740
35°	13105	9399	2558	752	443	8198
45°	11143	5281	374	277	268	8584
55°	8631	1097	232	224	174	7695
65°	5481	120	139	115	92	5425
75°	2200	73	54	56	49	2387
85°	146	14	20	26	24	292
90°	0	0	0	0	0	



TEST NUMBER: P730514

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16344.2	16344.2	16344.2	16344.2	16344.2
2.5°	16230.5	16336.7	16247.2	16327.5	16398.6
5°	16182.0	16258.1	16097.5	16112.5	16085.8
7.5°	16098.3	16116.7	15826.6	15714.5	15660.1
10°	15986.3	15937.0	15473.6	15206.8	15017.0
12.5°	15845.0	15681.9	15034.5	14081.9	13514.0
15°	15661.8	15361.5	14271.8	12257.0	11325.2
17.5°	15443.5	15027.0	13008.8	10215.3	9409.1
20°	15206.8	14657.3	11362.0	8685.7	7902.8
22.5°	14927.5	14184.8	9737.8	7223.7	6149.0
25°	14620.5	13571.7	8443.1	5417.2	3873.2
27.5°	14289.3	12762.9	7244.6	3322.0	2094.3
30°	13904.6	11778.5	5888.0	1864.3	1346.5
32.5°	13529.0	10631.1	4206.1	1242.0	860.6
35°	13105.0	9399.1	2557.6	751.9	443.3
37.5°	12655.8	8279.2	1600.8	409.0	306.1
40°	12180.0	7217.0	1085.6	290.3	286.1
42.5°	11671.5	6256.0	679.9	276.0	285.2
45°	11142.9	5280.8	373.9	276.9	267.7
47.5°	10569.2	4222.0	261.0	261.8	261.0
50°	9967.8	3028.5	246.8	258.5	256.0
52.5°	9319.6	1880.2	247.6	252.6	226.7
55°	8631.3	1097.3	231.7	224.2	174.0
57.5°	7907.8	684.1	226.7	184.9	156.4
60°	7150.1	361.3	215.8	166.5	133.8
62.5°	6343.0	178.2	173.1	142.2	109.6
65°	5480.7	120.5	138.9	115.4	92.0
67.5°	4647.7	108.7	104.6	94.5	80.3
70°	3803.0	99.5	81.1	82.8	68.6
72.5°	2974.1	90.3	65.2	71.1	57.7
75°	2199.6	72.8	54.4	56.0	49.4
77.5°	1530.5	56.9	42.7	47.7	46.0
80°	923.4	36.0	34.3	39.3	36.0
82.5°	447.4	23.4	26.8	30.9	28.4
85°	146.4	14.2	20.1	25.9	24.3
87.5°	18.4	8.4	16.7	22.6	20.9
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)