

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: P730562

Luminaire Tested: **HBLED-LD5-18HE-W-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLI-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18003.0 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

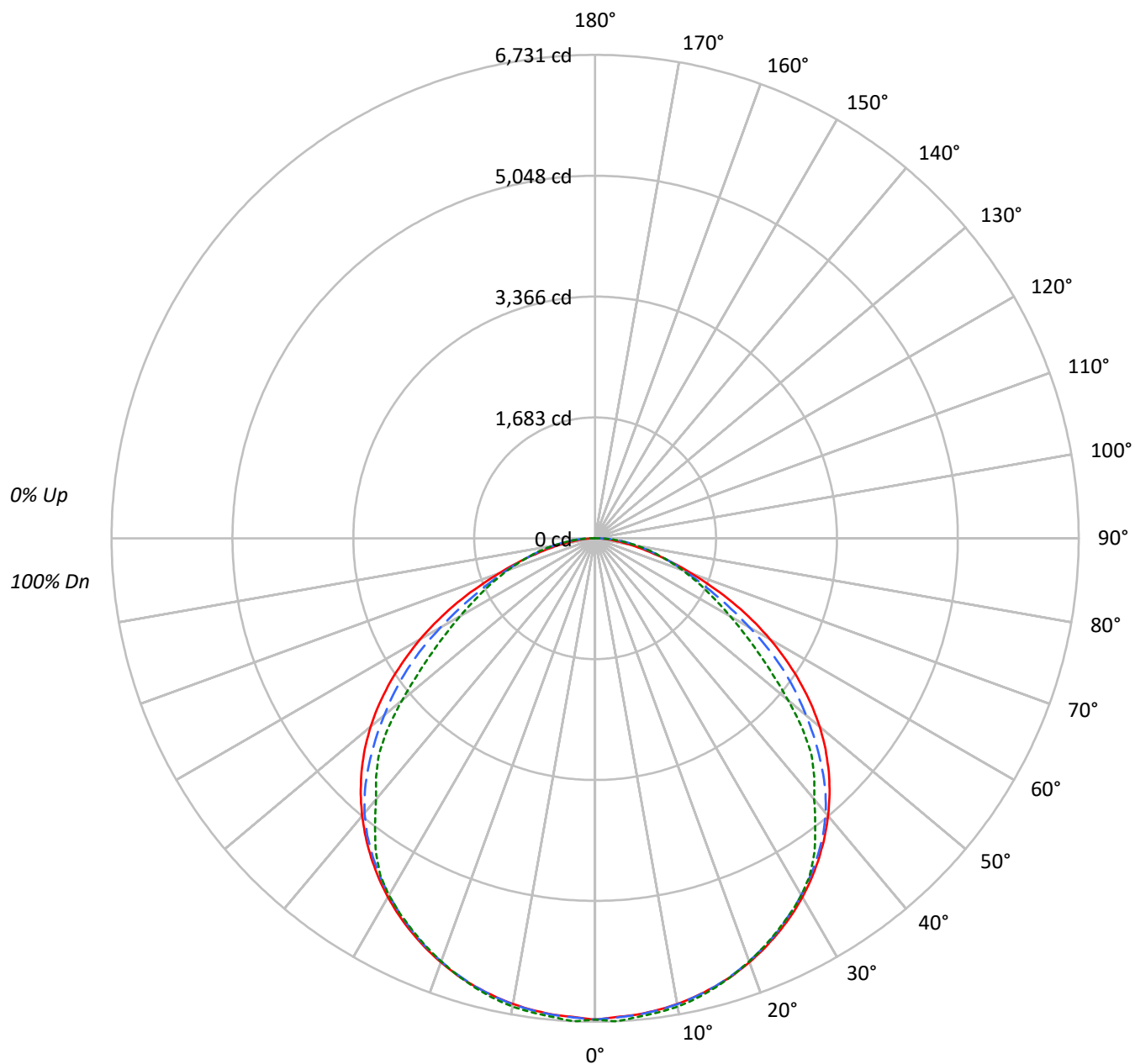
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730562

CATALOG NUMBER: HBLED-LD5-18HE-W-CLI-UNV-L735

Luminous Intensity Polar Plot





TEST NUMBER: P730562

CATALOG NUMBER: HBLED-LD5-18HE-W-CLI-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	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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10819	10819	10819
5°	10790	10798	10846
10°	10796	10801	10858
15°	10797	10796	10822
20°	10795	10770	10772
25°	10778	10738	10725
30°	10761	10696	10702
35°	10710	10644	10493
40°	10634	10526	9995
45°	10499	10163	9718
50°	10246	9622	8802
55°	9780	8999	7783
60°	9076	8029	7019
65°	8067	6952	6454
70°	6695	6212	6084
75°	5415	5686	5756
80°	4301	5437	5415
85°	3368	5841	5572



TEST NUMBER: P730562

CATALOG NUMBER: HBLED-LD5-18HE-W-CLI-UNV-L735

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.5	3.5
10°-20°	1827.9	10.2
20°-30°	2787.2	15.5
30°-40°	3372.1	18.7
40°-50°	3415.6	19.0
50°-60°	2823.1	15.7
60°-70°	1864.6	10.4
70°-80°	972.3	5.4
80°-90°	304.8	1.7
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°	5250.5	29.2
0°-40°	8622.6	47.9
0°-60°	14861.3	82.5
0°-90°	18003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6701	6701	6701	6701	6701	
5°	6657	6698	6662	6691	6692	633
15°	6460	6492	6459	6479	6474	1824
25°	6050	6074	6028	6043	6020	2790
35°	5434	5441	5400	5393	5324	3399
45°	4598	4586	4451	4312	4256	3541
55°	3474	3423	3197	2886	2765	3097
65°	2112	2050	1820	1701	1689	2086
75°	868	883	911	923	923	946
85°	182	234	315	313	301	221
90°	0	0	0	0	0	



TEST NUMBER: P730562

CATALOG NUMBER: HBLED-LD5-18HE-W-CLI-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6700.8	6700.8	6700.8	6700.8	6700.8
2.5°	6672.7	6712.1	6679.1	6708.0	6731.4
5°	6657.4	6697.6	6662.2	6691.2	6692.0
7.5°	6627.7	6667.8	6631.6	6660.6	6659.8
10°	6585.0	6622.8	6588.2	6622.8	6622.8
12.5°	6527.1	6564.1	6530.3	6562.4	6557.6
15°	6459.5	6492.5	6458.7	6478.8	6474.0
17.5°	6379.9	6409.6	6371.8	6388.7	6379.1
20°	6282.5	6309.9	6268.1	6289.8	6269.6
22.5°	6173.1	6198.8	6156.2	6172.4	6149.8
25°	6050.1	6074.2	6027.6	6042.8	6020.3
27.5°	5917.3	5939.0	5886.7	5905.3	5887.5
30°	5771.7	5782.2	5737.1	5761.3	5740.4
32.5°	5609.2	5615.7	5576.2	5597.9	5562.6
35°	5433.8	5441.1	5400.1	5392.8	5323.7
37.5°	5246.4	5249.6	5211.1	5145.8	5031.6
40°	5045.4	5043.7	4993.9	4843.4	4742.0
42.5°	4830.5	4829.8	4742.0	4570.7	4512.8
45°	4598.0	4586.0	4450.8	4312.5	4256.1
47.5°	4348.7	4335.8	4146.8	4036.6	3908.7
50°	4079.2	4056.7	3830.6	3680.2	3504.1
52.5°	3788.8	3754.2	3524.2	3281.2	3114.7
55°	3474.3	3422.8	3196.8	2886.3	2764.8
57.5°	3146.9	3070.5	2850.9	2548.4	2449.5
60°	2810.7	2725.3	2486.4	2237.9	2173.5
62.5°	2464.7	2380.3	2136.5	1949.1	1913.7
65°	2111.6	2050.4	1819.6	1701.3	1689.3
67.5°	1749.6	1727.9	1551.7	1491.4	1486.6
70°	1418.2	1414.2	1316.0	1285.4	1288.7
72.5°	1133.5	1128.6	1114.2	1098.8	1099.6
75°	868.0	883.2	911.4	923.4	922.7
77.5°	647.6	679.0	738.4	762.6	758.5
80°	462.6	509.2	584.8	607.4	582.4
82.5°	308.1	357.2	446.4	449.7	429.6
85°	181.8	234.1	315.3	312.9	300.8
87.5°	90.1	140.8	189.0	181.0	173.0
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)