

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: P731068

Luminaire Tested: **HBLED-LD5-48HE-W-AI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-AI-UNV-L750
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45256.0 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

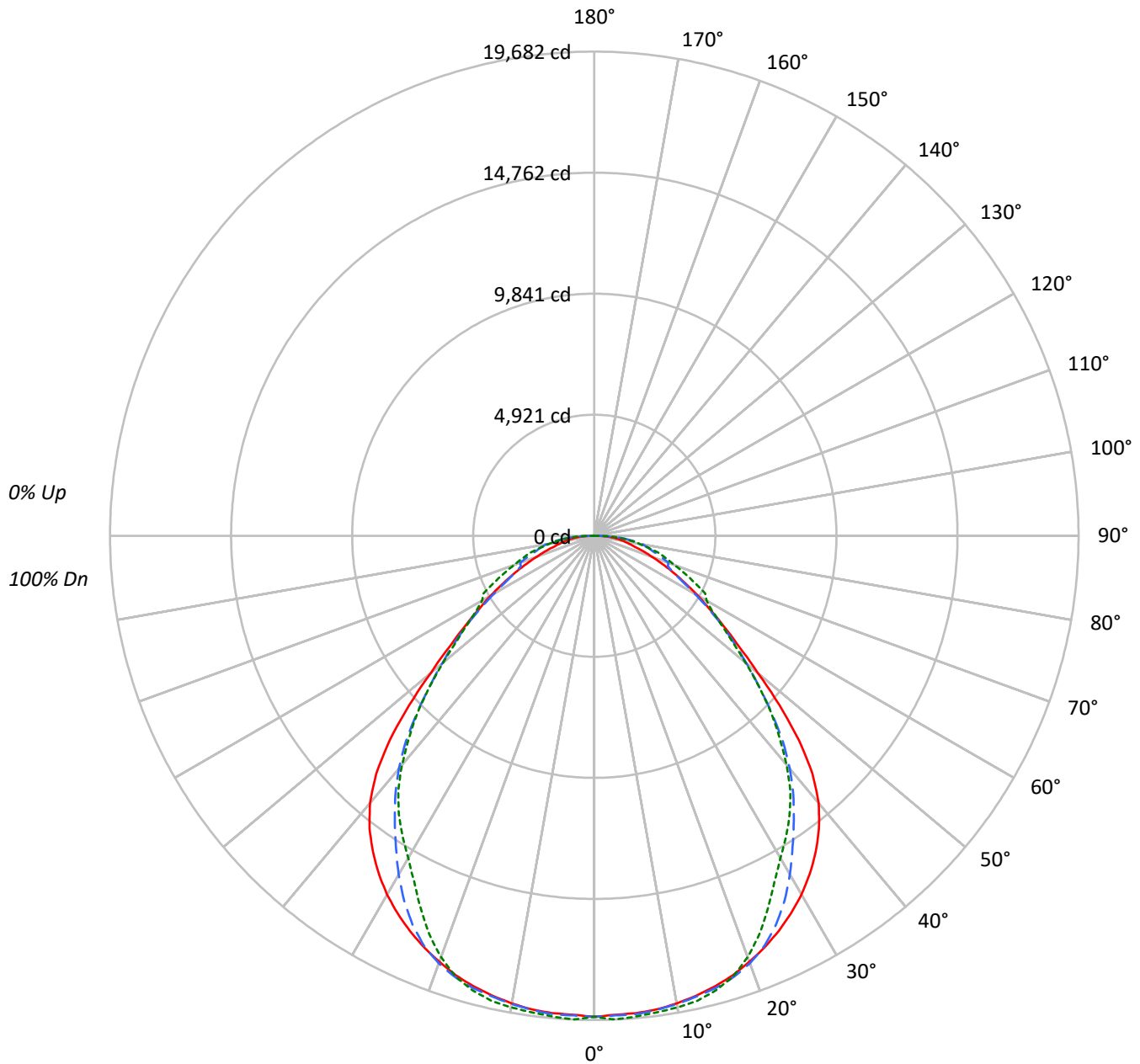
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731068

CATALOG NUMBER: HBLED-LD5-48HE-W-AI-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P731068

CATALOG NUMBER: HBLED-LD5-48HE-W-AI-UNV-L750

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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31568	31568	31568
5°	31567	31635	31789
10°	31645	31685	31918
15°	31694	31812	31968
20°	31662	31780	31308
25°	31582	31109	29756
30°	31396	29641	28196
35°	30923	27859	27279
40°	29889	26048	25619
45°	26865	23260	23174
50°	21789	20260	20121
55°	18092	17756	17750
60°	15664	15207	17001
65°	13576	13491	17137
70°	11706	15134	16336
75°	10497	15511	17030
80°	10911	18259	17085
85°	12384	21043	19524



TEST NUMBER: P731068

CATALOG NUMBER: HBLED-LD5-48HE-W-AI-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1861.6	4.1
10°-20°	5376.4	11.9
20°-30°	7985.2	17.6
30°-40°	9065.4	20.0
40°-50°	8104.1	17.9
50°-60°	5603.2	12.4
60°-70°	3697.3	8.2
70°-80°	2494.4	5.5
80°-90°	1068.4	2.4
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°	15223.2	33.6
0°-40°	24288.6	53.7
0°-60°	37995.9	84.0
0°-90°	45256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19552	19552	19552	19552	19552	
5°	19477	19596	19519	19598	19614	###
15°	18961	19052	19032	19138	19125	5352
25°	17728	17896	17462	16942	16702	8168
35°	15689	15359	14134	13928	13840	9783
45°	11765	10769	10187	10264	10149	8947
55°	6427	5867	6308	6219	6306	5838
65°	3554	3155	3531	4129	4486	3546
75°	1683	2117	2486	2657	2730	1838
85°	668	930	1136	1142	1054	697
90°	0	0	0	0	0	



TEST NUMBER: P731068

CATALOG NUMBER: HBLED-LD5-48HE-W-AI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19552.0	19552.0	19552.0	19552.0	19552.0
2.5°	19485.6	19607.4	19516.6	19600.7	19682.5
5°	19476.6	19596.3	19518.7	19598.4	19614.0
7.5°	19421.3	19532.0	19441.2	19518.7	19536.5
10°	19301.7	19432.4	19326.1	19445.7	19467.9
12.5°	19146.9	19279.7	19186.6	19350.4	19359.4
15°	18960.8	19051.6	19031.7	19137.9	19124.6
17.5°	18726.1	18830.3	18814.7	18841.2	18779.3
20°	18427.3	18544.5	18495.8	18374.1	18221.4
22.5°	18106.2	18247.8	18055.4	17747.6	17532.7
25°	17727.5	17895.8	17462.0	16941.7	16702.5
27.5°	17309.1	17459.7	16738.0	16100.4	15852.4
30°	16839.8	16903.9	15898.8	15292.2	15123.8
32.5°	16297.3	16204.4	15002.1	14601.4	14504.0
35°	15688.6	15358.6	14134.3	13928.4	13839.7
37.5°	15002.1	14397.8	13277.6	13182.3	13089.2
40°	14180.8	13288.4	12358.7	12296.7	12154.9
42.5°	13120.3	12081.9	11337.9	11264.9	11138.6
45°	11765.3	10768.9	10186.7	10264.2	10149.1
47.5°	10206.5	9451.7	9082.0	9294.5	9082.0
50°	8674.4	8167.6	8065.7	8258.3	8010.4
52.5°	7419.1	6963.1	7173.5	7206.6	7058.4
55°	6427.2	5867.2	6307.8	6219.2	6305.5
57.5°	5563.9	4937.2	5479.7	5377.8	5674.5
60°	4850.9	4146.9	4709.3	4687.1	5264.8
62.5°	4151.4	3589.0	4040.5	4366.0	5076.7
65°	3553.5	3155.0	3531.3	4129.2	4485.7
67.5°	2980.0	2829.5	3230.2	3562.3	3952.1
70°	2479.6	2557.1	3205.8	3143.9	3460.4
72.5°	2059.0	2322.6	2829.5	2840.6	3064.2
75°	1682.7	2116.7	2486.4	2656.9	2729.9
77.5°	1399.2	1919.6	2245.1	2304.9	2234.0
80°	1173.5	1691.4	1963.8	1937.3	1837.5
82.5°	947.5	1282.0	1547.7	1572.0	1454.6
85°	668.5	930.0	1135.9	1142.5	1053.9
87.5°	358.6	573.5	688.6	708.5	655.3
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)