

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: P730756

Luminaire Tested: **HBLED-LD5-24SE-W-A-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-A-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23036.0 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

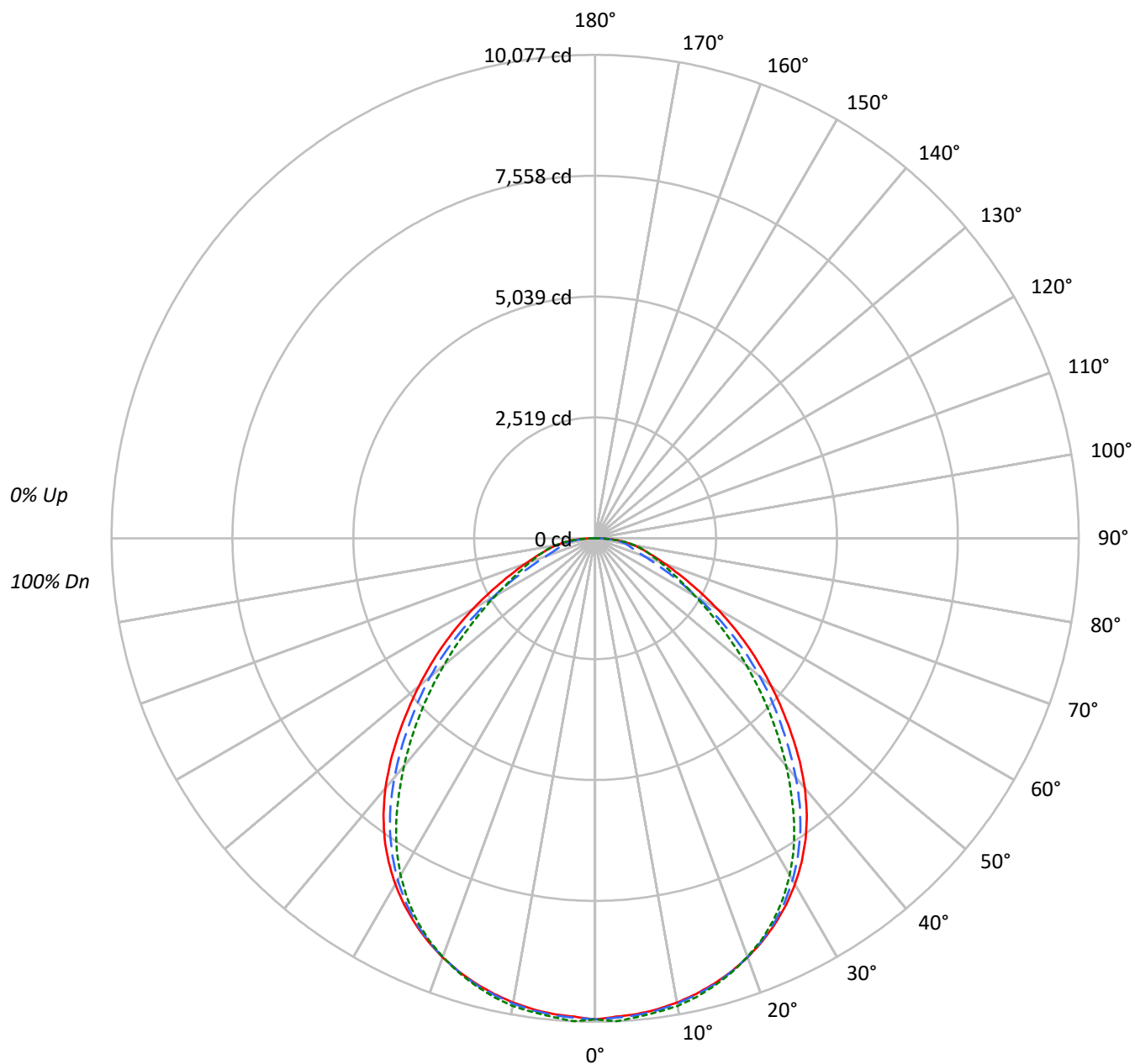
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730756

CATALOG NUMBER: HBLED-LD5-24SE-W-A-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P730756

CATALOG NUMBER: HBLED-LD5-24SE-W-A-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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16191	16191	16191
5°	16134	16170	16236
10°	16111	16148	16230
15°	16057	16089	16127
20°	15973	15961	15950
25°	15800	15745	15657
30°	15527	15339	15116
35°	15076	14697	14244
40°	14326	13711	13053
45°	13234	12496	11739
50°	12031	11252	10326
55°	10818	9742	8926
60°	9466	7961	7746
65°	8162	6261	6991
70°	7277	5110	6737
75°	6971	4988	7041
80°	7540	5900	7844
85°	8464	7103	8548



TEST NUMBER: P730756

CATALOG NUMBER: HBLED-LD5-24SE-W-A-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	950.4	4.1
10°-20°	2720.0	11.8
20°-30°	4068.8	17.7
30°-40°	4642.2	20.2
40°-50°	4225.7	18.3
50°-60°	3102.9	13.5
60°-70°	1832.1	8.0
70°-80°	1049.9	4.6
80°-90°	443.9	1.9
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°	7739.2	33.6
0°-40°	12381.4	53.7
0°-60°	19710.0	85.6
0°-90°	23036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10028	10028	10028	10028	10028	
5°	9954	10017	9977	10017	10018	946
15°	9606	9659	9625	9659	9648	2711
25°	8869	8900	8838	8835	8788	4082
35°	7648	7611	7456	7328	7227	4765
45°	5796	5762	5472	5227	5141	4467
55°	3843	3665	3461	3210	3171	3437
65°	2136	1865	1639	1753	1830	2150
75°	1117	958	800	1043	1129	1204
85°	457	422	383	452	461	478
90°	0	0	0	0	0	



TEST NUMBER: P730756

CATALOG NUMBER: HBLED-LD5-24SE-W-A-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10027.9	10027.9	10027.9	10027.9	10027.9
2.5°	9981.5	10039.3	10003.0	10042.6	10076.6
5°	9954.5	10016.7	9977.1	10016.7	10017.8
7.5°	9904.7	9962.3	9923.9	9966.9	9962.3
10°	9826.6	9884.3	9849.3	9895.7	9899.1
12.5°	9727.1	9782.5	9746.4	9799.5	9790.5
15°	9606.1	9659.2	9625.3	9659.2	9648.0
17.5°	9463.6	9512.3	9468.2	9505.5	9486.3
20°	9296.2	9336.9	9289.5	9324.5	9282.7
22.5°	9096.1	9132.2	9082.5	9101.7	9058.7
25°	8868.7	8900.4	8838.2	8834.8	8788.4
27.5°	8615.4	8632.4	8553.2	8526.0	8472.9
30°	8328.2	8332.7	8227.5	8176.7	8107.6
32.5°	8005.8	7994.6	7859.9	7784.2	7699.3
35°	7648.5	7611.2	7456.2	7328.5	7226.7
37.5°	7244.8	7186.0	7000.5	6811.6	6714.3
40°	6796.9	6727.9	6505.1	6271.0	6193.0
42.5°	6309.5	6250.7	5988.3	5744.0	5667.1
45°	5796.0	5762.1	5472.5	5227.2	5141.2
47.5°	5282.6	5257.7	4975.0	4725.0	4620.9
50°	4789.5	4735.2	4479.7	4205.9	4111.0
52.5°	4311.1	4200.2	3975.2	3694.7	3624.7
55°	3842.9	3665.4	3460.7	3209.6	3171.1
57.5°	3379.2	3149.6	2950.6	2762.8	2761.7
60°	2931.4	2669.0	2465.4	2367.0	2398.7
62.5°	2511.8	2242.6	2022.1	2028.9	2086.6
65°	2136.3	1864.9	1638.7	1752.9	1829.9
67.5°	1814.0	1555.0	1325.4	1538.1	1611.5
70°	1541.5	1307.3	1082.4	1348.0	1427.2
72.5°	1311.9	1115.1	912.7	1189.7	1270.0
75°	1117.4	957.9	799.5	1042.7	1128.6
77.5°	959.1	817.7	717.1	902.4	991.8
80°	810.9	686.5	634.5	766.8	843.6
82.5°	642.3	556.5	525.9	623.1	662.7
85°	456.9	421.8	383.4	452.4	461.4
87.5°	251.1	260.1	214.8	260.1	261.2
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)