

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: P730738

Luminaire Tested: **HBLED-LD5-24SE-N-CL-WG-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CL-WG-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23246.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

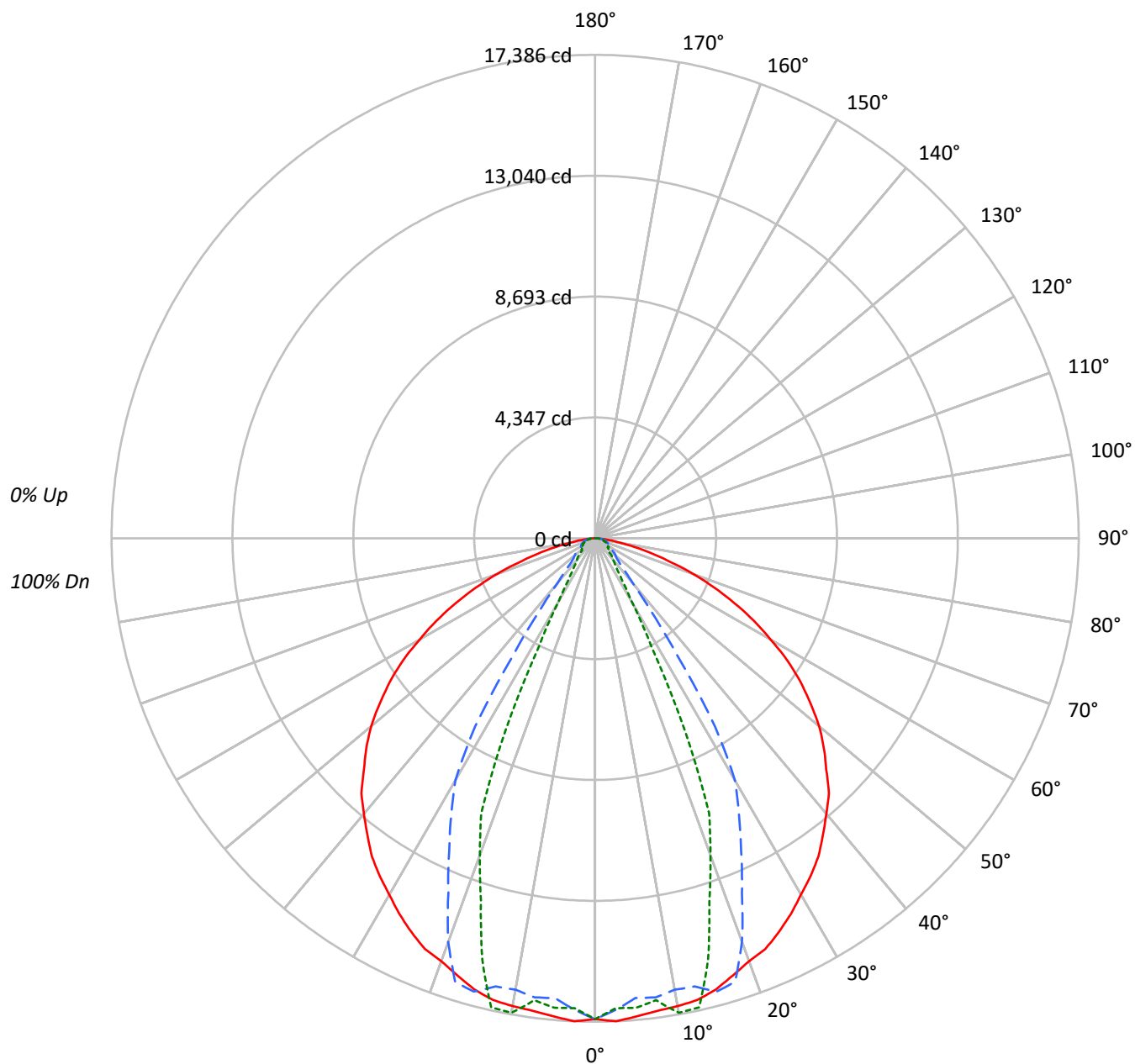
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27919	27919	27919
5°	27965	26900	27466
10°	28006	27029	28416
15°	28068	28214	26223
20°	27802	26537	20814
25°	27842	22123	13596
30°	27593	18741	4884
35°	27564	10153	2747
40°	27252	4426	2152
45°	26830	2735	1687
50°	26412	2383	1593
55°	25374	2066	1558
60°	23542	1852	1675
65°	21161	2092	1830
70°	17748	2250	1887
75°	13267	2566	2043
80°	8333	2980	2329
85°	5548	3735	3411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1602.7	6.9
10°-20°	4525.6	19.5
20°-30°	5541.8	23.8
30°-40°	4352.0	18.7
40°-50°	3227.3	13.9
50°-60°	1964.7	8.5
60°-70°	1176.9	5.1
70°-80°	645.7	2.8
80°-90°	209.4	0.9
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°	11670.1	50.2
0°-40°	16022.1	68.9
0°-60°	21214.0	91.3
0°-90°	23246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17292	17292	17292	17292	17292	
5°	17254	16785	16597	16780	16947	###
15°	16792	16331	16879	16197	15688	4728
25°	15629	15678	12418	9740	7632	7194
35°	13984	12721	5151	1724	1394	8726
45°	11750	8437	1198	908	739	9086
55°	9014	2325	734	621	554	8022
65°	5539	685	548	515	479	5472
75°	2127	432	411	358	328	2303
85°	300	235	202	185	184	365
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17291.6	17291.6	17291.6	17291.6	17291.6
2.5°	17385.9	17151.7	16972.3	16872.0	16912.7
5°	17254.2	16784.6	16597.0	16780.0	16946.6
7.5°	17140.0	16442.0	16654.1	16670.4	16757.8
10°	17081.8	16409.3	16486.2	16848.7	17332.3
12.5°	17004.9	16485.1	16511.9	17006.0	17278.7
15°	16791.6	16331.3	16879.0	16197.3	15688.0
17.5°	16480.4	15972.3	16725.1	14349.0	13656.8
20°	16180.9	15582.0	15444.5	12781.6	12113.8
22.5°	15987.5	15522.6	13796.7	11389.0	10699.1
25°	15628.6	15677.5	12418.1	9740.0	7631.9
27.5°	15233.5	15312.8	11199.1	6495.7	4372.4
30°	14800.0	14891.0	10052.3	3838.6	2619.8
32.5°	14407.3	13894.5	8028.1	2394.8	1821.4
35°	13984.3	12721.0	5150.9	1723.6	1393.8
37.5°	13451.7	11488.0	3260.6	1363.4	1170.1
40°	12929.7	10381.0	2100.0	1164.2	1020.9
42.5°	12441.3	9468.5	1527.8	1017.4	921.8
45°	11750.3	8437.2	1198.0	907.8	738.8
47.5°	11152.5	7227.6	1047.6	768.0	637.5
50°	10515.0	5526.2	948.6	682.9	634.0
52.5°	9758.7	3614.9	876.3	653.8	592.0
55°	9014.0	2324.9	734.1	621.1	553.5
57.5°	8209.9	1474.2	648.0	602.4	578.0
60°	7290.5	994.0	573.4	571.0	518.6
62.5°	6439.7	816.9	553.5	547.7	490.6
65°	5538.9	685.2	547.7	515.1	478.9
67.5°	4639.3	587.4	495.3	470.8	439.3
70°	3759.5	537.3	476.6	466.2	399.7
72.5°	2855.1	442.8	423.0	395.1	332.2
75°	2126.7	432.3	411.3	357.7	327.5
77.5°	1439.2	398.6	374.1	320.5	296.0
80°	896.2	365.9	320.5	280.9	250.5
82.5°	532.6	305.3	263.4	231.9	212.1
85°	299.5	235.4	201.6	185.3	184.1
87.5°	64.1	85.1	67.6	64.1	45.4
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)