

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: P730740

Luminaire Tested: **HBLED-LD5-24SE-N-CL-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730740
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-L840
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: 21668.0 lumens
Efficiency: N/A
Efficacy: 144.5 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

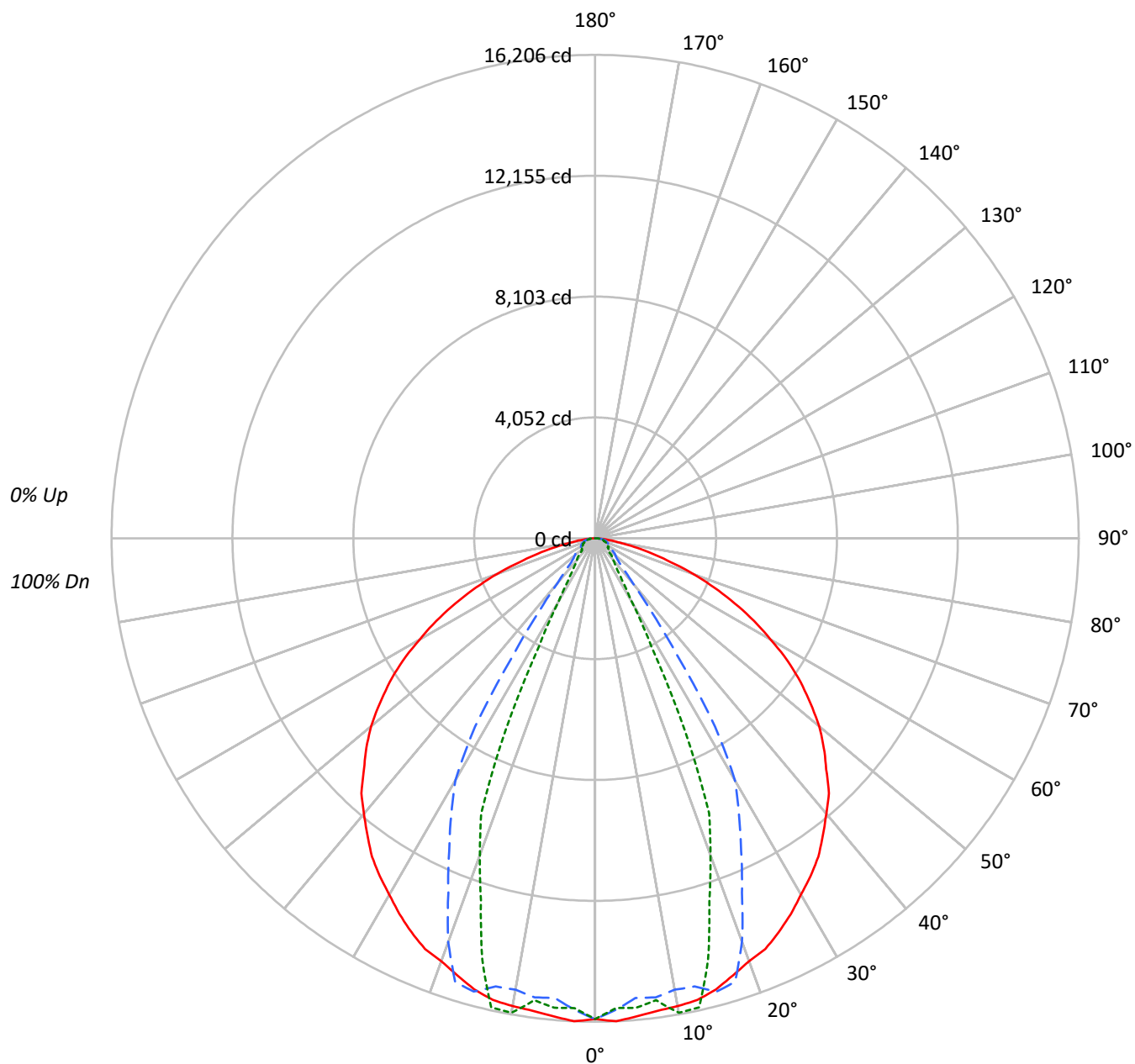
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	103	100		101	99	97			98	96	94			94
2	104	97	92	88	101	96	91	87		92	88	85			89	86	83			86
3	97	89	82	77	95	87	81	76		84	79	75			82	77	74			79
4	90	81	74	68	88	80	73	68		77	72	67			75	70	66			73
5	85	74	67	62	83	73	66	61		71	65	61			69	64	60			68
6	79	68	61	56	78	68	61	56		66	60	55			64	59	55			63
7	75	63	56	51	73	63	56	51		61	55	50			60	54	50			59
8	70	59	52	47	69	58	51	47		57	51	46			56	50	46			55
9	66	55	48	43	65	54	48	43		53	47	43			52	47	43			52
10	63	52	45	40	62	51	45	40		50	44	40			49	44	40			48

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26024	26024	26024
5°	26066	25074	25602
10°	26104	25194	26487
15°	26163	26299	24443
20°	25915	24735	19401
25°	25952	20621	12673
30°	25719	17469	4553
35°	25693	9463	2561
40°	25402	4126	2006
45°	25009	2550	1573
50°	24619	2221	1485
55°	23651	1926	1452
60°	21944	1726	1561
65°	19725	1951	1705
70°	16543	2097	1758
75°	12367	2392	1905
80°	7767	2777	2171
85°	5172	3481	3179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1493.9	6.9
10°-20°	4218.4	19.5
20°-30°	5165.6	23.8
30°-40°	4056.5	18.7
40°-50°	3008.2	13.9
50°-60°	1831.3	8.5
60°-70°	1097.0	5.1
70°-80°	601.9	2.8
80°-90°	195.2	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°	10877.9	50.2
0°-40°	14934.4	68.9
0°-60°	19773.9	91.3
0°-90°	21668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16118	16118	16118	16118	16118	
5°	16083	15645	15470	15641	15796	###
15°	15652	15223	15733	15098	14623	4407
25°	14568	14613	11575	9079	7114	6706
35°	13035	11857	4801	1607	1299	8134
45°	10953	7864	1117	846	689	8470
55°	8402	2167	684	579	516	7477
65°	5163	639	511	480	446	5101
75°	1982	403	383	333	305	2146
85°	279	219	188	173	172	341
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16117.8	16117.8	16117.8	16117.8	16117.8
2.5°	16205.7	15987.4	15820.1	15726.7	15764.7
5°	16082.9	15645.2	15470.3	15640.9	15796.2
7.5°	15976.5	15325.9	15523.5	15538.8	15620.2
10°	15922.2	15295.4	15367.1	15704.9	16155.7
12.5°	15850.6	15366.1	15391.0	15851.6	16105.7
15°	15651.8	15222.7	15733.2	15097.8	14623.0
17.5°	15361.7	14888.1	15589.8	13375.0	12729.7
20°	15082.5	14524.2	14396.1	11913.9	11291.5
22.5°	14902.2	14468.8	12860.1	10615.9	9972.8
25°	14567.7	14613.3	11575.1	9078.8	7113.9
27.5°	14199.4	14273.3	10438.9	6054.8	4075.6
30°	13795.3	13880.1	9369.9	3578.0	2441.9
32.5°	13429.3	12951.3	7483.1	2232.2	1697.8
35°	13035.0	11857.4	4801.2	1606.6	1299.2
37.5°	12538.6	10708.2	3039.3	1270.9	1090.6
40°	12052.0	9676.3	1957.4	1085.1	951.6
42.5°	11596.8	8825.8	1424.1	948.3	859.3
45°	10952.7	7864.4	1116.7	846.1	688.7
47.5°	10395.4	6736.9	976.5	715.9	594.2
50°	9801.2	5151.0	884.2	636.6	591.0
52.5°	9096.2	3369.5	816.8	609.4	551.8
55°	8402.1	2167.1	684.3	579.0	515.9
57.5°	7652.6	1374.1	604.0	561.5	538.7
60°	6795.6	926.5	534.5	532.2	483.4
62.5°	6002.6	761.5	515.9	510.6	457.3
65°	5162.9	638.7	510.6	480.1	446.4
67.5°	4324.3	547.5	461.7	438.8	409.5
70°	3504.3	500.8	444.3	434.5	372.5
72.5°	2661.3	412.7	394.3	368.3	309.6
75°	1982.4	403.0	383.4	333.4	305.3
77.5°	1341.5	371.5	348.7	298.7	275.9
80°	835.3	341.1	298.7	261.8	233.5
82.5°	496.4	284.6	245.5	216.2	197.7
85°	279.2	219.4	187.9	172.7	171.6
87.5°	59.7	79.3	63.0	59.7	42.3
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)