

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: P730736

Luminaire Tested: **HBLED-LD5-24SE-N-CL-WG-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730736
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-L735
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: 22032.0 lumens
Efficiency: N/A
Efficacy: 146.9 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

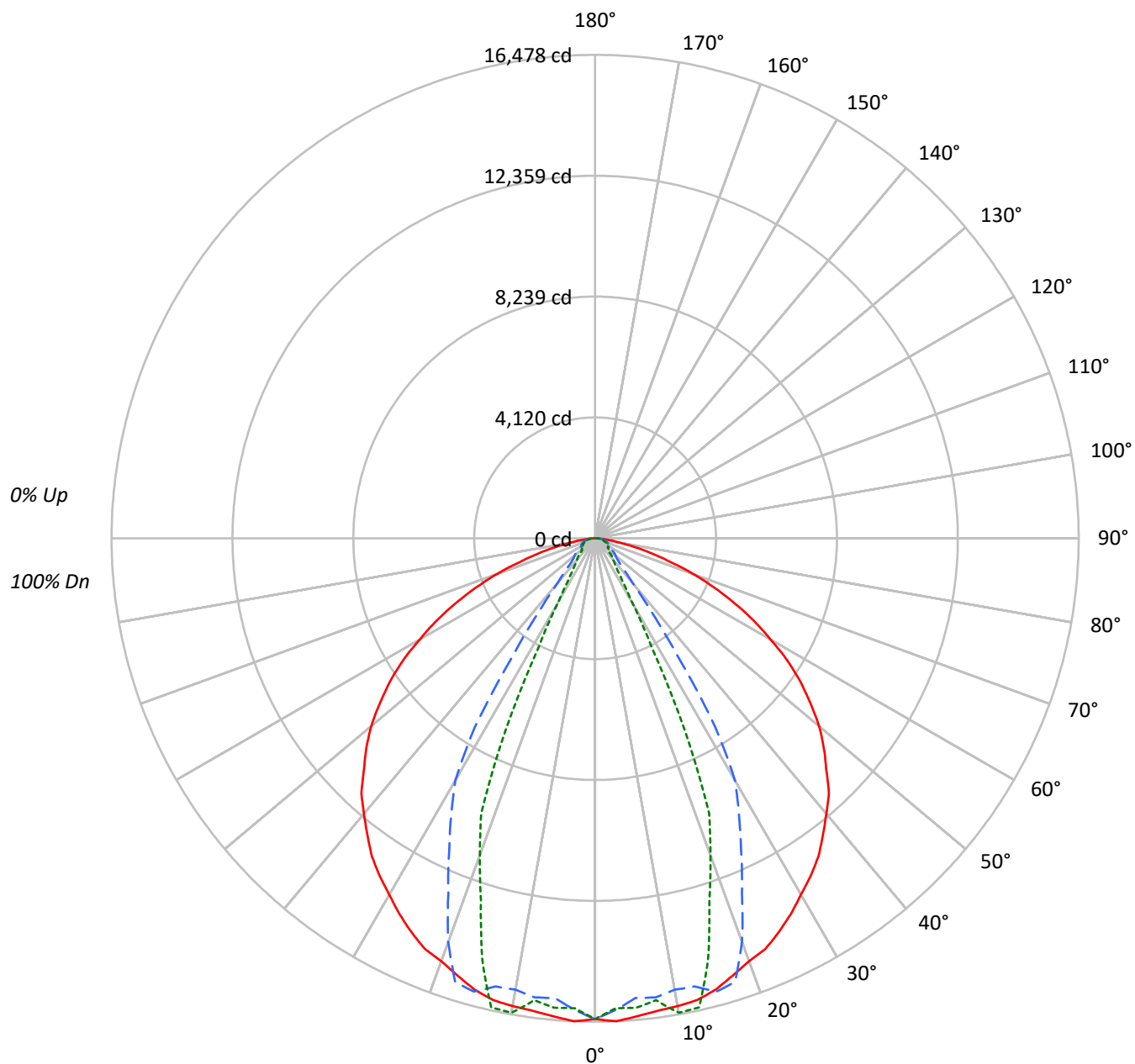
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26461	26461	26461
5°	26504	25495	26032
10°	26543	25617	26932
15°	26602	26741	24854
20°	26350	25151	19727
25°	26388	20967	12886
30°	26152	17762	4629
35°	26124	9622	2604
40°	25829	4195	2039
45°	25429	2593	1599
50°	25033	2258	1509
55°	24049	1959	1477
60°	22313	1755	1587
65°	20056	1983	1734
70°	16820	2133	1788
75°	12575	2432	1936
80°	7898	2825	2207
85°	5259	3540	3233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1519.0	6.9
10°-20°	4289.3	19.5
20°-30°	5252.3	23.8
30°-40°	4124.7	18.7
40°-50°	3058.7	13.9
50°-60°	1862.1	8.5
60°-70°	1115.4	5.1
70°-80°	612.0	2.8
80°-90°	198.5	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°	11060.6	50.2
0°-40°	15185.3	68.9
0°-60°	20106.1	91.3
0°-90°	22032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16388	16388	16388	16388	16388	
5°	16353	15908	15730	15904	16062	###
15°	15915	15478	15998	15351	14869	4481
25°	14812	14859	11770	9231	7233	6819
35°	13254	12057	4882	1634	1321	8270
45°	11137	7996	1135	860	700	8612
55°	8543	2204	696	589	525	7603
65°	5250	649	519	488	454	5187
75°	2016	410	390	339	310	2183
85°	284	223	191	176	174	346
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16388.5	16388.5	16388.5	16388.5	16388.5
2.5°	16477.9	16255.9	16085.9	15990.9	16029.5
5°	16353.1	15908.0	15730.2	15903.6	16061.6
7.5°	16244.9	15583.3	15784.3	15799.8	15882.6
10°	16189.7	15552.4	15625.2	15968.7	16427.1
12.5°	16116.8	15624.2	15649.6	16117.9	16376.3
15°	15914.7	15478.4	15997.5	15351.4	14868.7
17.5°	15619.8	15138.2	15851.7	13599.6	12943.6
20°	15335.9	14768.2	14637.9	12114.1	11481.2
22.5°	15152.6	14711.9	13076.2	10794.2	10140.3
25°	14812.4	14858.8	11769.5	9231.3	7233.4
27.5°	14438.0	14513.1	10614.2	6156.5	4144.0
30°	14027.1	14113.3	9527.3	3638.2	2482.9
32.5°	13654.9	13168.9	7608.8	2269.7	1726.3
35°	13254.0	12056.6	4881.9	1633.6	1321.0
37.5°	12749.2	10888.1	3090.4	1292.2	1108.9
40°	12254.4	9838.8	1990.3	1103.4	967.6
42.5°	11791.6	8974.0	1448.0	964.3	873.7
45°	11136.7	7996.5	1135.4	860.4	700.2
47.5°	10570.0	6850.1	992.9	727.9	604.2
50°	9965.8	5237.6	899.1	647.3	600.9
52.5°	9249.0	3426.1	830.5	619.6	561.0
55°	8543.3	2203.5	695.8	588.7	524.6
57.5°	7781.2	1397.2	614.1	571.0	547.8
60°	6909.7	942.1	543.5	541.2	491.5
62.5°	6103.4	774.2	524.6	519.1	465.0
65°	5249.7	649.4	519.1	488.2	453.9
67.5°	4397.0	556.7	469.5	446.2	416.4
70°	3563.1	509.2	451.8	441.8	378.8
72.5°	2706.0	419.7	400.9	374.4	314.8
75°	2015.7	409.7	389.9	339.0	310.4
77.5°	1364.1	377.8	354.6	303.8	280.6
80°	849.4	346.8	303.8	266.2	237.4
82.5°	504.7	289.4	249.6	219.8	201.0
85°	283.9	223.1	191.1	175.6	174.5
87.5°	60.8	80.6	64.1	60.8	43.1
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)