

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: P730739

Luminaire Tested: **HBLED-LD5-24SE-N-CL-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730739
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-L835
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: 21061.0 lumens
Efficiency: N/A
Efficacy: 140.4 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

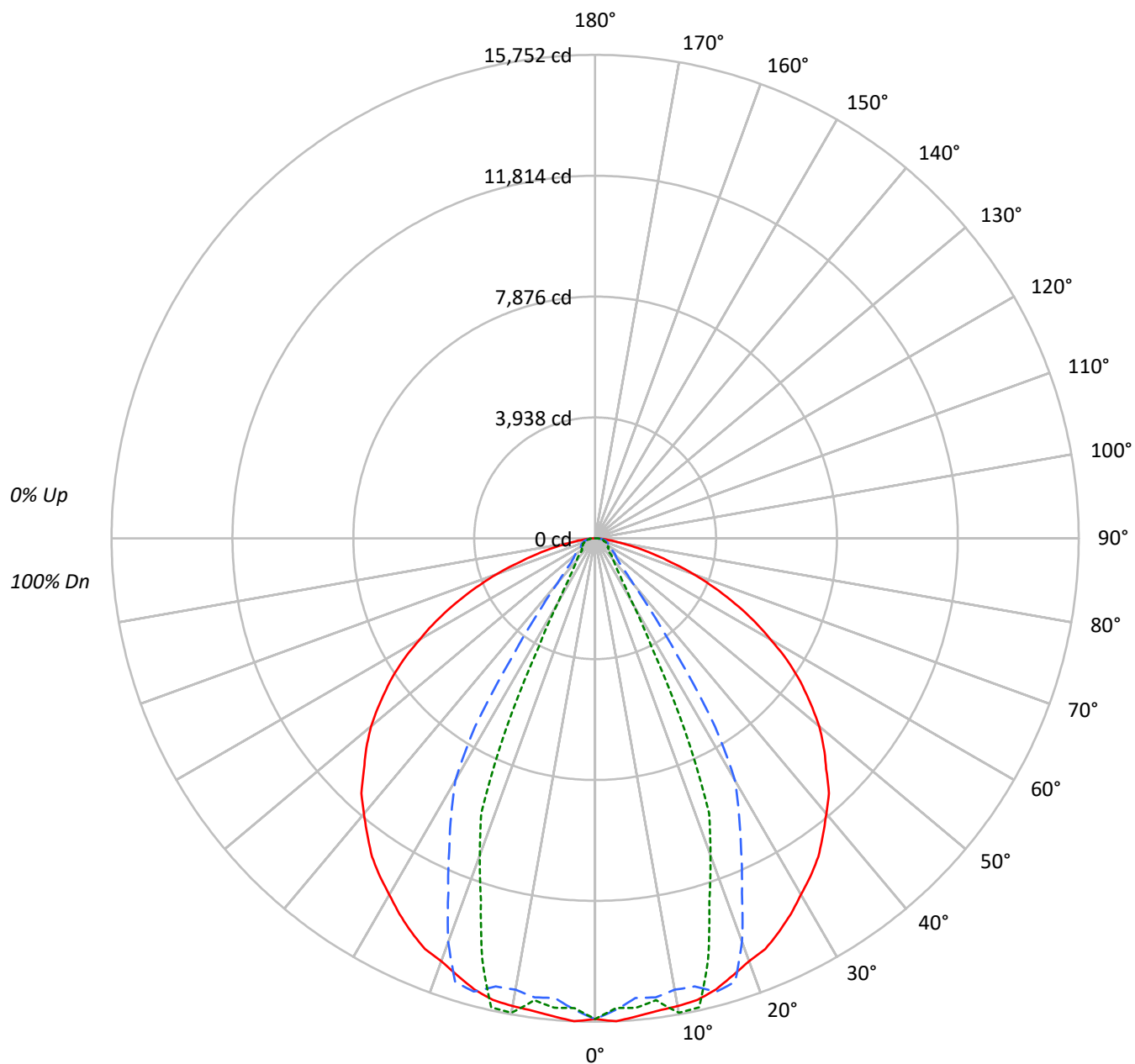
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25294	25294	25294
5°	25336	24371	24885
10°	25373	24488	25745
15°	25430	25562	23758
20°	25189	24043	18858
25°	25225	20043	12318
30°	24999	16980	4425
35°	24973	9198	2489
40°	24690	4010	1949
45°	24309	2478	1528
50°	23929	2159	1443
55°	22989	1872	1412
60°	21329	1678	1517
65°	19172	1896	1658
70°	16079	2038	1709
75°	12020	2325	1851
80°	7549	2700	2111
85°	5028	3383	3090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1452.0	6.9
10°-20°	4100.2	19.5
20°-30°	5020.9	23.8
30°-40°	3942.9	18.7
40°-50°	2923.9	13.9
50°-60°	1780.0	8.5
60°-70°	1066.3	5.1
70°-80°	585.0	2.8
80°-90°	189.7	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°	10573.2	50.2
0°-40°	14516.1	68.9
0°-60°	19220.0	91.3
0°-90°	21061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15666	15666	15666	15666	15666	
5°	15632	15207	15037	15203	15354	###
15°	15213	14796	15292	14675	14213	4283
25°	14160	14204	11251	8824	6915	6518
35°	12670	11525	4667	1562	1263	7906
45°	10646	7644	1085	822	669	8232
55°	8167	2106	665	563	502	7268
65°	5018	621	496	467	434	4958
75°	1927	392	373	324	297	2086
85°	271	213	183	168	167	331
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15666.2	15666.2	15666.2	15666.2	15666.2
2.5°	15751.7	15539.5	15377.0	15286.1	15323.0
5°	15632.4	15206.9	15036.9	15202.7	15353.7
7.5°	15528.9	14896.5	15088.7	15103.5	15182.7
10°	15476.2	14867.0	14936.6	15265.0	15703.1
12.5°	15406.5	14935.6	14959.9	15407.5	15654.6
15°	15213.3	14796.2	15292.5	14674.8	14213.4
17.5°	14931.4	14471.0	15153.1	13000.3	12373.1
20°	14660.0	14117.3	13992.8	11580.2	10975.2
22.5°	14484.8	14063.5	12499.9	10318.5	9693.4
25°	14159.6	14203.9	11250.8	8824.5	6914.6
27.5°	13801.6	13873.5	10146.4	5885.2	3961.4
30°	13408.9	13491.3	9107.4	3477.8	2373.5
32.5°	13053.1	12588.5	7273.5	2169.7	1650.2
35°	12669.8	11525.3	4666.7	1561.6	1262.8
37.5°	12187.3	10408.2	2954.2	1235.3	1060.1
40°	11714.3	9405.2	1902.6	1054.7	924.9
42.5°	11271.9	8578.5	1384.2	921.8	835.2
45°	10645.9	7644.1	1085.4	822.4	669.4
47.5°	10104.2	6548.2	949.2	695.8	577.6
50°	9526.6	5006.7	859.4	618.7	574.4
52.5°	8841.4	3275.1	793.9	592.3	536.3
55°	8166.8	2106.4	665.1	562.7	501.5
57.5°	7438.2	1335.6	587.1	545.8	523.7
60°	6605.2	900.6	519.5	517.3	469.8
62.5°	5834.4	740.1	501.5	496.3	444.5
65°	5018.3	620.8	496.3	466.7	433.9
67.5°	4203.2	532.2	448.8	426.5	398.0
70°	3406.1	486.8	431.8	422.3	362.1
72.5°	2586.7	401.2	383.3	357.9	301.0
75°	1926.8	391.7	372.7	324.1	296.7
77.5°	1303.9	361.1	338.9	290.4	268.2
80°	811.9	331.5	290.4	254.5	227.0
82.5°	482.5	276.6	238.6	210.1	192.1
85°	271.4	213.3	182.6	167.9	166.8
87.5°	58.1	77.1	61.2	58.1	41.2
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)