

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: P730734

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
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-UNV-L840
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22034.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

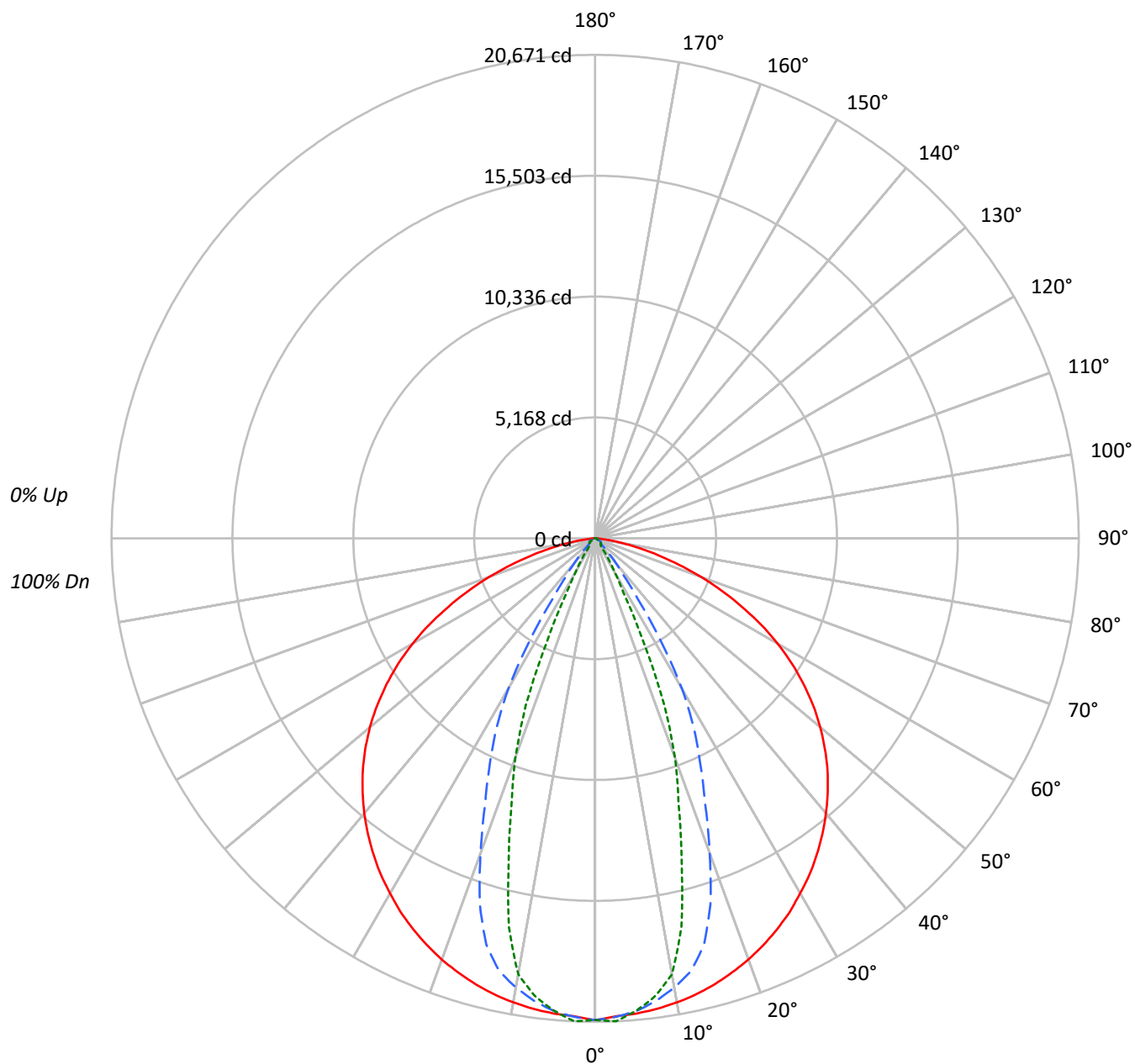
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	105	103		109	106	104	101		102	100	98		98	97	95		95	94	92
2	105	99	94	90		102	97	92	89		94	90	87		91	87	85		88	85	83
3	98	90	84	79		96	89	83	79		86	81	77		83	79	76		81	78	75
4	92	83	76	71		90	82	75	71		79	74	70		77	73	69		75	71	68
5	86	76	69	64		85	75	69	64		73	68	63		72	67	63		70	66	62
6	81	71	64	59		80	70	63	58		68	62	58		67	62	58		65	61	57
7	77	66	59	54		75	65	58	54		64	58	53		62	57	53		61	56	53
8	72	61	55	50		71	61	54	50		60	54	49		59	53	49		58	53	49
9	69	58	51	46		67	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43		64	54	47	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33264	33264	33264
5°	33060	32887	32863
10°	33038	31978	31034
15°	33000	30071	23862
20°	32936	24608	17116
25°	32832	18960	8698
30°	32677	13837	3165
35°	32560	6354	1101
40°	32360	2884	760
45°	32072	1076	770
50°	31561	781	810
55°	30627	822	617
60°	29104	878	544
65°	26394	669	443
70°	22630	482	408
75°	17297	428	389
80°	10823	402	422
85°	3418	469	567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1918.1	8.7
10°-20°	4831.8	21.9
20°-30°	5262.0	23.9
30°-40°	3936.2	17.9
40°-50°	2830.3	12.8
50°-60°	1738.2	7.9
60°-70°	1000.2	4.5
70°-80°	446.4	2.0
80°-90°	70.8	0.3
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°	12011.8	54.5
0°-40°	15948.1	72.4
0°-60°	20516.6	93.1
0°-90°	22034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20602	20602	20602	20602	20602	
5°	20398	20494	20291	20310	20277	###
15°	19742	19364	17990	15450	14276	5573
25°	18430	17108	10643	6828	4882	8495
35°	16519	11848	3224	948	559	10333
45°	14046	6657	471	349	337	10821
55°	10880	1383	292	283	219	9700
65°	6908	152	175	146	116	6839
75°	2773	92	69	71	62	3009
85°	184	18	25	33	31	368
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20602.3	20602.3	20602.3	20602.3	20602.3
2.5°	20459.0	20592.9	20480.1	20581.3	20670.9
5°	20397.9	20493.8	20291.4	20310.3	20276.6
7.5°	20292.4	20315.6	19949.8	19808.5	19740.0
10°	20151.1	20089.0	19504.9	19168.6	18929.3
12.5°	19973.0	19767.4	18951.3	17750.6	17034.8
15°	19742.1	19363.6	17989.9	15450.2	14275.7
17.5°	19467.0	18941.9	16397.9	12876.7	11860.4
20°	19168.6	18475.9	14322.1	10948.5	9961.7
22.5°	18816.5	17880.3	12274.7	9105.6	7751.0
25°	18429.5	17107.5	10642.8	6828.5	4882.3
27.5°	18012.1	16088.0	9132.0	4187.5	2639.9
30°	17527.1	14847.2	7422.0	2350.0	1697.4
32.5°	17053.7	13400.7	5301.9	1565.5	1084.8
35°	16519.2	11847.8	3223.9	947.8	558.7
37.5°	15953.0	10436.1	2017.9	515.5	385.8
40°	15353.2	9097.2	1368.4	365.9	360.6
42.5°	14712.2	7885.8	857.1	347.9	359.5
45°	14045.9	6656.6	471.3	349.0	337.4
47.5°	13322.7	5321.9	329.0	330.0	329.0
50°	12564.7	3817.4	311.1	325.8	322.6
52.5°	11747.6	2370.0	312.1	318.4	285.7
55°	10880.0	1383.2	292.0	282.6	219.3
57.5°	9968.0	862.4	285.7	233.0	197.1
60°	9012.9	455.5	272.0	209.8	168.6
62.5°	7995.5	224.6	218.2	179.2	138.1
65°	6908.5	151.9	175.1	145.5	116.0
67.5°	5858.5	137.0	131.8	119.1	101.2
70°	4793.7	125.4	102.2	104.4	86.5
72.5°	3749.0	113.8	82.2	89.6	72.7
75°	2772.7	91.7	68.6	70.6	62.3
77.5°	1929.3	71.7	53.8	60.1	58.0
80°	1164.0	45.4	43.2	49.5	45.4
82.5°	564.0	29.5	33.8	39.0	35.8
85°	184.5	17.9	25.3	32.7	30.6
87.5°	23.2	10.6	21.1	28.5	26.3
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)