

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: P730742

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CLI-UNV-L735
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22131.0 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

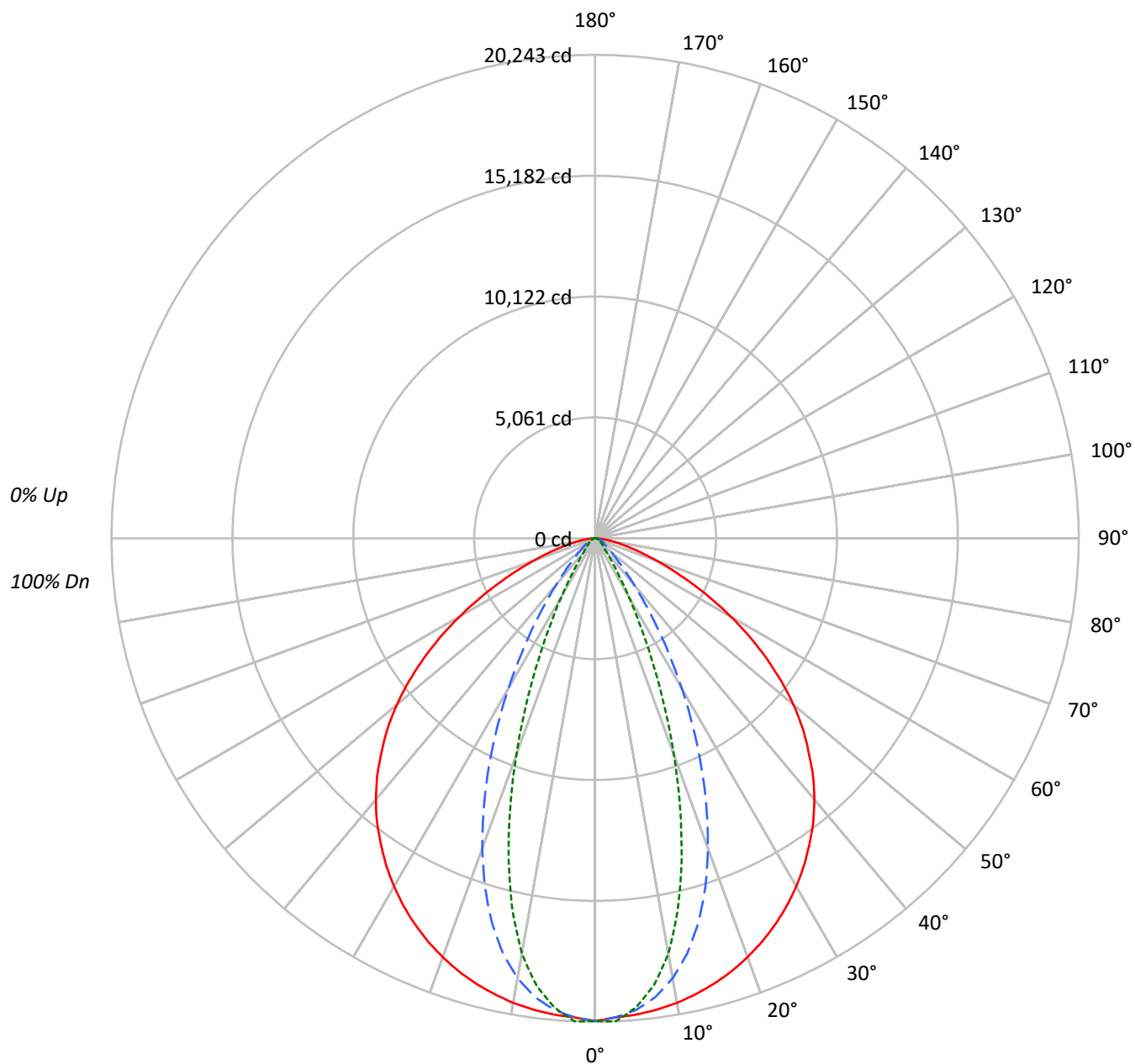
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32639	32639	32639
5°	32443	32120	31951
10°	32388	30665	28937
15°	32258	27874	23370
20°	32065	23719	16564
25°	31778	18703	10008
30°	31392	13498	5143
35°	30825	8825	2569
40°	30094	5301	1499
45°	28844	3165	1121
50°	27205	2070	941
55°	24622	1570	821
60°	21159	1338	749
65°	17020	1220	708
70°	12822	1307	704
75°	9432	1242	724
80°	6900	1238	792
85°	5169	1501	1024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1861.7	8.4
10°-20°	4631.5	20.9
20°-30°	5130.1	23.2
30°-40°	4110.1	18.6
40°-50°	2934.1	13.3
50°-60°	1884.6	8.5
60°-70°	1021.3	4.6
70°-80°	436.5	2.0
80°-90°	121.1	0.5
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°	11623.3	52.5
0°-40°	15733.4	71.1
0°-60°	20552.1	92.9
0°-90°	22131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20215	20215	20215	20215	20215	
5°	20017	20092	19818	19755	19714	###
15°	19298	18695	16676	14737	13981	5445
25°	17838	15728	10498	6840	5618	8217
35°	15639	11312	4477	1806	1303	9778
45°	12632	6530	1386	590	491	9737
55°	8747	2920	558	343	292	7795
65°	4455	1199	319	220	185	4461
75°	1512	439	199	138	116	1680
85°	279	116	81	67	55	341
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20215.0	20215.0	20215.0	20215.0	20215.0
2.5°	20082.0	20207.6	20072.3	20156.5	20242.7
5°	20017.0	20091.6	19817.9	19755.0	19713.6
7.5°	19904.1	19882.8	19368.7	19035.3	18874.5
10°	19755.0	19582.6	18704.2	17971.7	17650.1
12.5°	19542.1	19186.5	17804.5	16518.3	15973.2
15°	19298.3	18694.6	16675.9	14737.0	13981.1
17.5°	19006.6	18119.6	15326.8	12826.9	11829.2
20°	18661.6	17425.5	13804.3	10797.5	9640.1
22.5°	18276.2	16624.8	12174.2	8774.4	7533.0
25°	17837.5	15728.2	10498.3	6839.9	5617.5
27.5°	17363.8	14732.8	8832.0	5110.7	3995.9
30°	16837.7	13655.2	7240.2	3685.1	2758.8
32.5°	16263.8	12509.6	5761.3	2591.5	1886.7
35°	15638.9	11311.8	4477.2	1805.8	1303.2
37.5°	14998.9	10089.4	3381.6	1276.6	934.9
40°	14278.1	8871.3	2514.9	934.9	711.2
42.5°	13504.0	7676.7	1861.2	719.7	576.0
45°	12632.0	6530.0	1386.3	589.9	490.9
47.5°	11786.7	5461.1	1053.0	502.5	426.9
50°	10830.5	4496.4	824.1	438.7	374.7
52.5°	9815.8	3647.8	668.6	386.5	330.1
55°	8746.8	2919.5	557.9	342.8	291.8
57.5°	7664.0	2312.6	477.0	305.5	259.8
60°	6552.4	1849.4	414.2	273.6	232.1
62.5°	5467.5	1478.9	362.0	245.9	207.6
65°	4454.9	1198.8	319.4	220.4	185.2
67.5°	3518.9	947.6	298.1	198.0	167.2
70°	2716.1	737.8	276.9	176.7	149.1
72.5°	2058.1	566.5	244.9	157.6	132.0
75°	1511.9	438.7	199.1	138.4	116.0
77.5°	1081.8	337.6	161.8	120.3	100.1
80°	742.1	251.3	133.1	103.3	85.2
82.5°	482.4	177.9	107.5	85.2	70.2
85°	279.0	116.0	81.0	67.1	55.3
87.5°	120.3	63.8	55.3	50.1	42.6
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)