

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: P730741

Luminaire Tested: **HBLED-LD5-24SE-N-CL-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730741
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-L850
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: 22092.0 lumens
Efficiency: N/A
Efficacy: 147.3 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

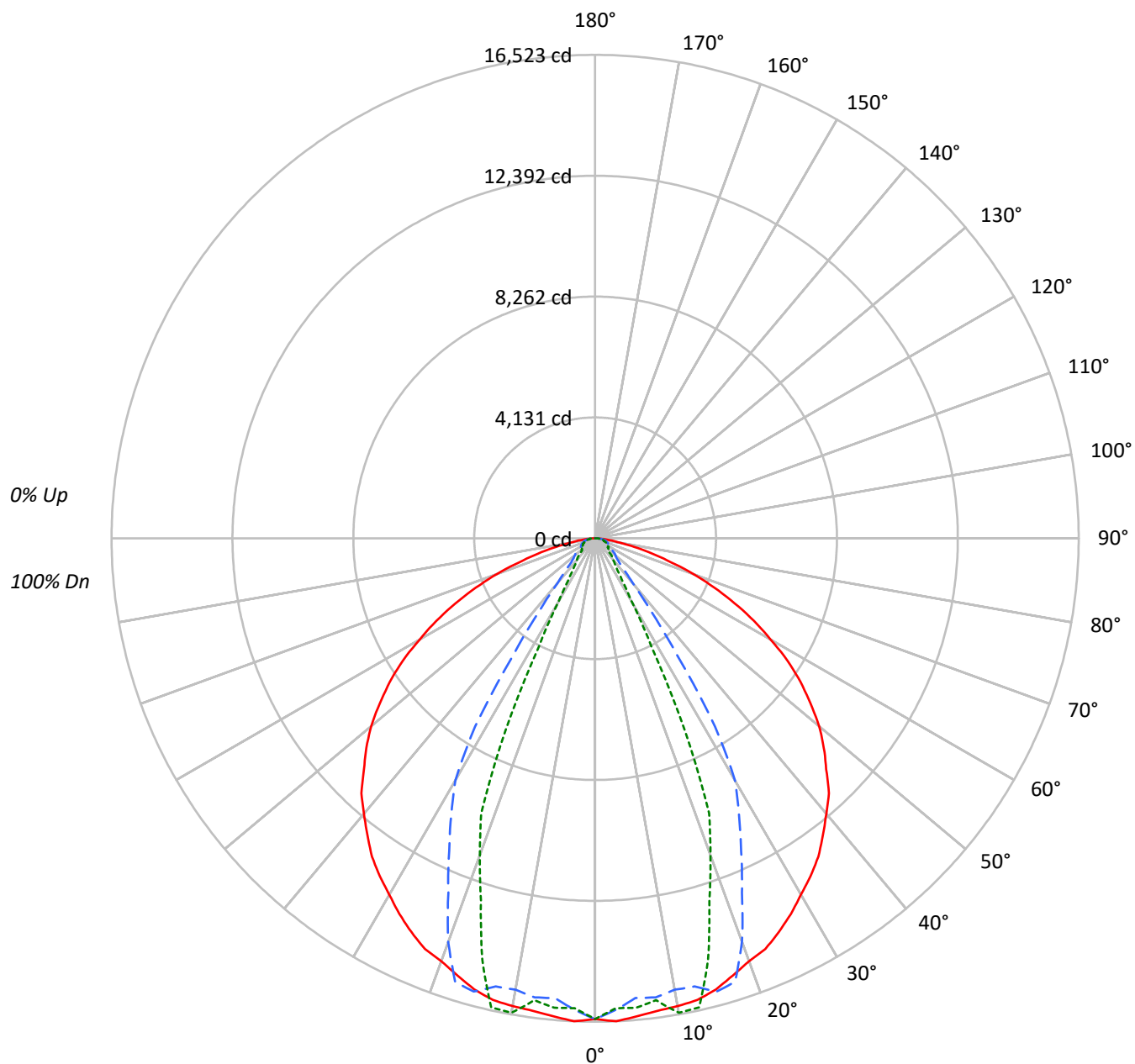
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26533	26533	26533
5°	26577	25564	26103
10°	26615	25687	27006
15°	26675	26813	24921
20°	26422	25220	19781
25°	26460	21025	12921
30°	26223	17811	4642
35°	26195	9648	2611
40°	25899	4206	2045
45°	25498	2600	1603
50°	25101	2264	1513
55°	24115	1964	1481
60°	22374	1760	1591
65°	20111	1989	1739
70°	16866	2138	1793
75°	12609	2439	1941
80°	7919	2832	2214
85°	5274	3549	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1523.1	6.9
10°-20°	4301.0	19.5
20°-30°	5266.7	23.8
30°-40°	4135.9	18.7
40°-50°	3067.0	13.9
50°-60°	1867.1	8.5
60°-70°	1118.4	5.1
70°-80°	613.7	2.8
80°-90°	199.0	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°	11090.7	50.2
0°-40°	15226.7	68.9
0°-60°	20160.9	91.3
0°-90°	22092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16433	16433	16433	16433	16433	
5°	16398	15951	15773	15947	16105	###
15°	15958	15520	16041	15393	14909	4493
25°	14853	14899	11802	9256	7253	6837
35°	13290	12090	4895	1638	1325	8293
45°	11167	8018	1138	863	702	8635
55°	8567	2210	698	590	526	7623
65°	5264	651	520	490	455	5201
75°	2021	411	391	340	311	2188
85°	285	224	192	176	175	347
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16433.2	16433.2	16433.2	16433.2	16433.2
2.5°	16522.8	16300.2	16129.7	16034.4	16073.2
5°	16397.7	15951.3	15773.0	15947.0	16105.3
7.5°	16289.1	15625.8	15827.3	15842.9	15925.9
10°	16233.8	15594.7	15667.8	16012.2	16471.9
12.5°	16160.7	15666.8	15692.2	16161.8	16420.9
15°	15958.1	15520.5	16041.1	15393.2	14909.2
17.5°	15662.3	15179.4	15894.9	13636.7	12978.8
20°	15377.6	14808.4	14677.8	12147.1	11512.5
22.5°	15193.9	14752.0	13111.8	10823.6	10167.9
25°	14852.7	14899.2	11801.6	9256.5	7253.1
27.5°	14477.3	14552.6	10643.1	6173.3	4155.3
30°	14065.3	14151.7	9553.3	3648.1	2489.7
32.5°	13692.1	13204.8	7629.6	2275.9	1731.0
35°	13290.1	12089.5	4895.1	1638.0	1324.6
37.5°	12783.9	10917.7	3098.8	1295.8	1112.0
40°	12287.8	9865.6	1995.7	1106.4	970.2
42.5°	11823.7	8998.5	1451.9	966.9	876.1
45°	11167.0	8018.3	1138.5	862.7	702.2
47.5°	10598.8	6868.8	995.6	729.9	605.8
50°	9993.0	5251.8	901.5	649.0	602.5
52.5°	9274.2	3435.4	832.8	621.3	562.6
55°	8566.6	2209.5	697.7	590.3	526.0
57.5°	7802.4	1401.0	615.8	572.5	549.3
60°	6928.6	944.7	544.9	542.6	492.8
62.5°	6120.0	776.4	526.0	520.5	466.3
65°	5264.0	651.2	520.5	489.5	455.2
67.5°	4409.0	558.2	470.7	447.4	417.5
70°	3572.8	510.6	453.0	443.0	379.8
72.5°	2713.3	420.8	402.0	375.5	315.7
75°	2021.2	410.9	390.9	340.0	311.2
77.5°	1367.8	378.8	355.5	304.6	281.3
80°	851.7	347.8	304.6	266.9	238.1
82.5°	506.1	290.2	250.3	220.4	201.5
85°	284.7	223.7	191.6	176.1	175.0
87.5°	60.9	80.8	64.2	60.9	43.2
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)