

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: P730753

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-UNV-L850
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23985.0 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

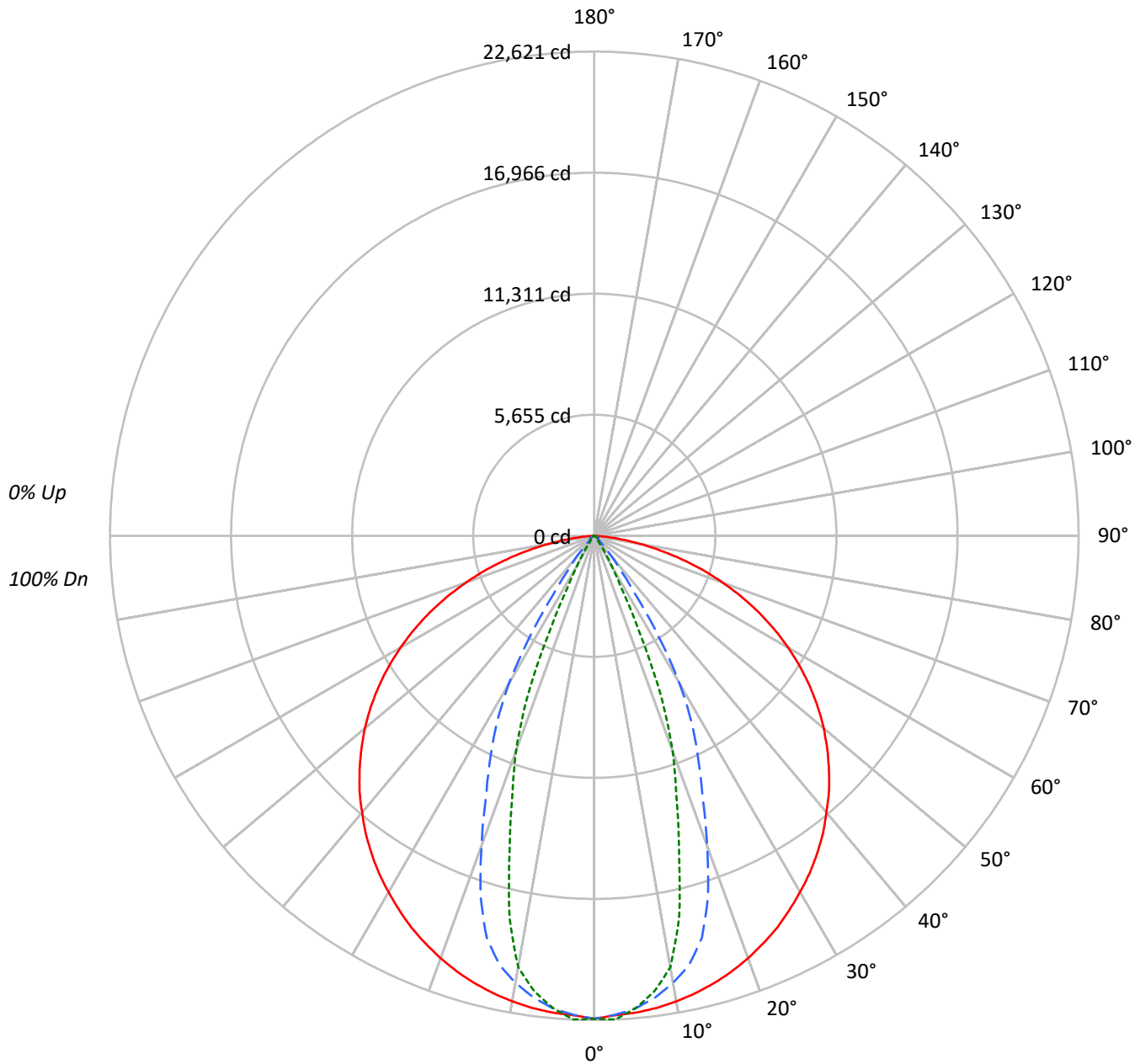
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36435	36435	36435
5°	36240	35920	35904
10°	36218	34769	33549
15°	36166	32482	25533
20°	36082	26480	18379
25°	35990	20475	9054
30°	35831	14880	2936
35°	35747	6602	756
40°	35560	2681	509
45°	35400	753	542
50°	35125	534	601
55°	34618	634	257
60°	33764	707	156
65°	32375	451	185
70°	30077	401	228
75°	26312	301	314
80°	19673	369	449
85°	9744	476	597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2094.2	8.7
10°-20°	5236.5	21.8
20°-30°	5671.9	23.6
30°-40°	4200.3	17.5
40°-50°	3025.3	12.6
50°-60°	1873.2	7.8
60°-70°	1152.0	4.8
70°-80°	607.3	2.5
80°-90°	124.3	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°	13002.6	54.2
0°-40°	17202.8	71.7
0°-60°	22101.4	92.1
0°-90°	23985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22566	22566	22566	22566	22566	
5°	22360	22443	22162	22179	22153	###
15°	21636	21134	19433	16526	15275	6108
25°	20202	18505	11493	7230	5082	9309
35°	18136	12785	3349	788	383	11346
45°	15504	7203	330	238	237	11956
55°	12298	1484	225	204	91	10979
65°	8474	157	118	75	48	8361
75°	4218	36	48	63	50	4455
85°	526	14	26	39	32	795
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22566.2	22566.2	22566.2	22566.2	22566.2
2.5°	22421.3	22564.1	22395.5	22521.1	22620.9
5°	22360.1	22442.7	22162.5	22178.6	22152.9
7.5°	22252.7	22233.4	21762.1	21556.0	21465.9
10°	22090.7	21962.9	21207.2	20776.7	20463.2
12.5°	21881.3	21595.7	20514.8	19146.0	18295.8
15°	21636.5	21134.1	19432.6	16525.6	15274.9
17.5°	21344.5	20632.8	17663.5	13850.4	12734.0
20°	20999.9	20073.5	15411.2	11783.9	10696.5
22.5°	20615.6	19392.9	13223.5	9793.6	8242.4
25°	20202.3	18505.1	11492.9	7230.0	5082.0
27.5°	19724.6	17364.0	9869.8	4258.6	2593.6
30°	19219.0	15989.8	7981.5	2290.8	1574.9
32.5°	18709.1	14432.2	5647.7	1431.0	893.1
35°	18135.9	12785.4	3349.3	788.0	383.3
37.5°	17537.8	11276.1	1979.5	358.6	245.8
40°	16871.3	9896.7	1272.1	238.3	241.5
42.5°	16227.2	8610.6	716.1	235.1	239.4
45°	15503.5	7203.2	329.6	238.3	237.2
47.5°	14755.3	5744.3	213.6	240.5	240.5
50°	13983.6	4107.3	212.5	245.8	239.4
52.5°	13168.7	2562.5	221.2	244.8	196.5
55°	12298.1	1483.6	225.4	203.9	91.3
57.5°	11396.4	874.9	227.6	117.0	51.6
60°	10455.9	484.1	219.0	86.9	48.3
62.5°	9486.5	230.8	172.8	81.6	47.2
65°	8474.2	156.7	118.0	75.1	48.3
67.5°	7423.3	121.3	93.4	70.8	49.4
70°	6371.2	90.1	84.9	70.8	48.3
72.5°	5302.1	61.2	70.8	71.9	48.3
75°	4217.8	36.5	48.3	63.4	50.4
77.5°	3143.2	22.5	37.6	65.5	61.2
80°	2115.8	19.3	39.7	61.2	48.3
82.5°	1242.1	17.2	38.7	47.2	38.7
85°	526.0	14.0	25.7	38.7	32.2
87.5°	98.8	11.8	20.4	31.1	27.9
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)