

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: P730765

Luminaire Tested: **HBLED-LD5-24SE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-AI-UNV-L850
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21968.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

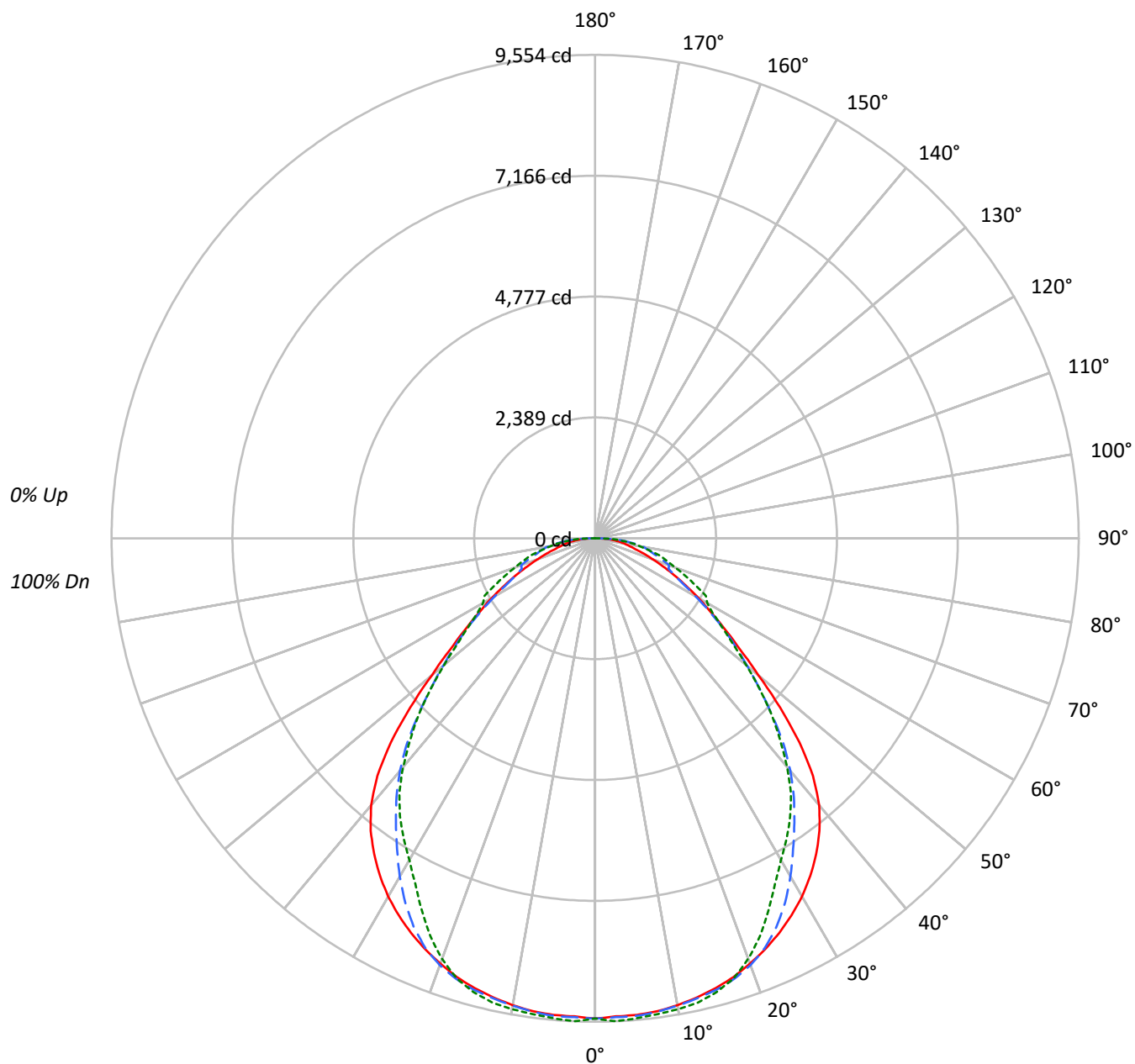
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15324	15324	15324
5°	15323	15356	15431
10°	15361	15380	15493
15°	15385	15442	15518
20°	15369	15426	15197
25°	15330	15101	14444
30°	15240	14388	13687
35°	15011	13523	13241
40°	14509	12644	12436
45°	13041	11291	11249
50°	10577	9834	9767
55°	8782	8619	8616
60°	7604	7382	8252
65°	6590	6549	8319
70°	5682	7346	7929
75°	5095	7530	8267
80°	5296	8863	8294
85°	6011	10215	9478



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.7	4.1
10°-20°	2609.8	11.9
20°-30°	3876.1	17.6
30°-40°	4400.5	20.0
40°-50°	3933.9	17.9
50°-60°	2719.9	12.4
60°-70°	1794.7	8.2
70°-80°	1210.8	5.5
80°-90°	518.6	2.4
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°	7389.6	33.6
0°-40°	11790.1	53.7
0°-60°	18443.8	84.0
0°-90°	21968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9491	9491	9491	9491	9491	
5°	9454	9512	9475	9513	9521	900
15°	9204	9248	9238	9290	9283	2598
25°	8605	8687	8476	8224	8108	3965
35°	7616	7455	6861	6761	6718	4749
45°	5711	5227	4945	4982	4926	4343
55°	3120	2848	3062	3019	3061	2834
65°	1725	1532	1714	2004	2177	1721
75°	817	1028	1207	1290	1325	892
85°	324	451	551	555	512	338
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9490.9	9490.9	9490.9	9490.9	9490.9
2.5°	9458.6	9517.7	9473.7	9514.5	9554.2
5°	9454.3	9512.3	9474.7	9513.4	9520.9
7.5°	9427.4	9481.1	9437.1	9474.7	9483.3
10°	9369.4	9432.8	9381.2	9439.2	9450.0
12.5°	9294.2	9358.7	9313.5	9393.0	9397.4
15°	9203.9	9248.0	9238.3	9289.8	9283.4
17.5°	9089.9	9140.5	9133.0	9145.8	9115.8
20°	8944.9	9001.8	8978.2	8919.1	8844.9
22.5°	8789.1	8857.8	8764.4	8615.0	8510.7
25°	8605.2	8686.9	8476.4	8223.8	8107.7
27.5°	8402.1	8475.2	8124.9	7815.4	7695.0
30°	8174.3	8205.4	7717.5	7423.1	7341.4
32.5°	7911.0	7865.9	7282.3	7087.8	7040.5
35°	7615.5	7455.3	6861.0	6761.1	6718.0
37.5°	7282.3	6988.9	6445.1	6398.9	6353.7
40°	6883.6	6450.4	5999.1	5969.0	5900.2
42.5°	6368.8	5864.7	5503.6	5468.2	5406.9
45°	5711.1	5227.4	4944.8	4982.4	4926.5
47.5°	4954.4	4588.0	4408.5	4511.7	4408.5
50°	4210.7	3964.7	3915.2	4008.7	3888.4
52.5°	3601.4	3380.0	3482.1	3498.2	3426.3
55°	3119.9	2848.0	3061.9	3018.9	3060.8
57.5°	2700.8	2396.6	2659.9	2610.5	2754.5
60°	2354.7	2013.0	2286.0	2275.2	2555.6
62.5°	2015.1	1742.2	1961.3	2119.3	2464.3
65°	1724.9	1531.5	1714.2	2004.4	2177.4
67.5°	1446.6	1373.5	1568.0	1729.2	1918.4
70°	1203.6	1241.3	1556.2	1526.1	1679.7
72.5°	999.5	1127.4	1373.5	1378.9	1487.4
75°	816.8	1027.5	1207.0	1289.7	1325.2
77.5°	679.2	931.8	1089.8	1118.8	1084.4
80°	569.6	821.1	953.2	940.4	892.0
82.5°	459.9	622.3	751.3	763.1	706.1
85°	324.5	451.4	551.4	554.6	511.6
87.5°	174.1	278.4	334.3	343.9	318.1
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)