

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: P730797

Luminaire Tested: **HBLED-LD5-24SE-W-WG-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24236.0 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

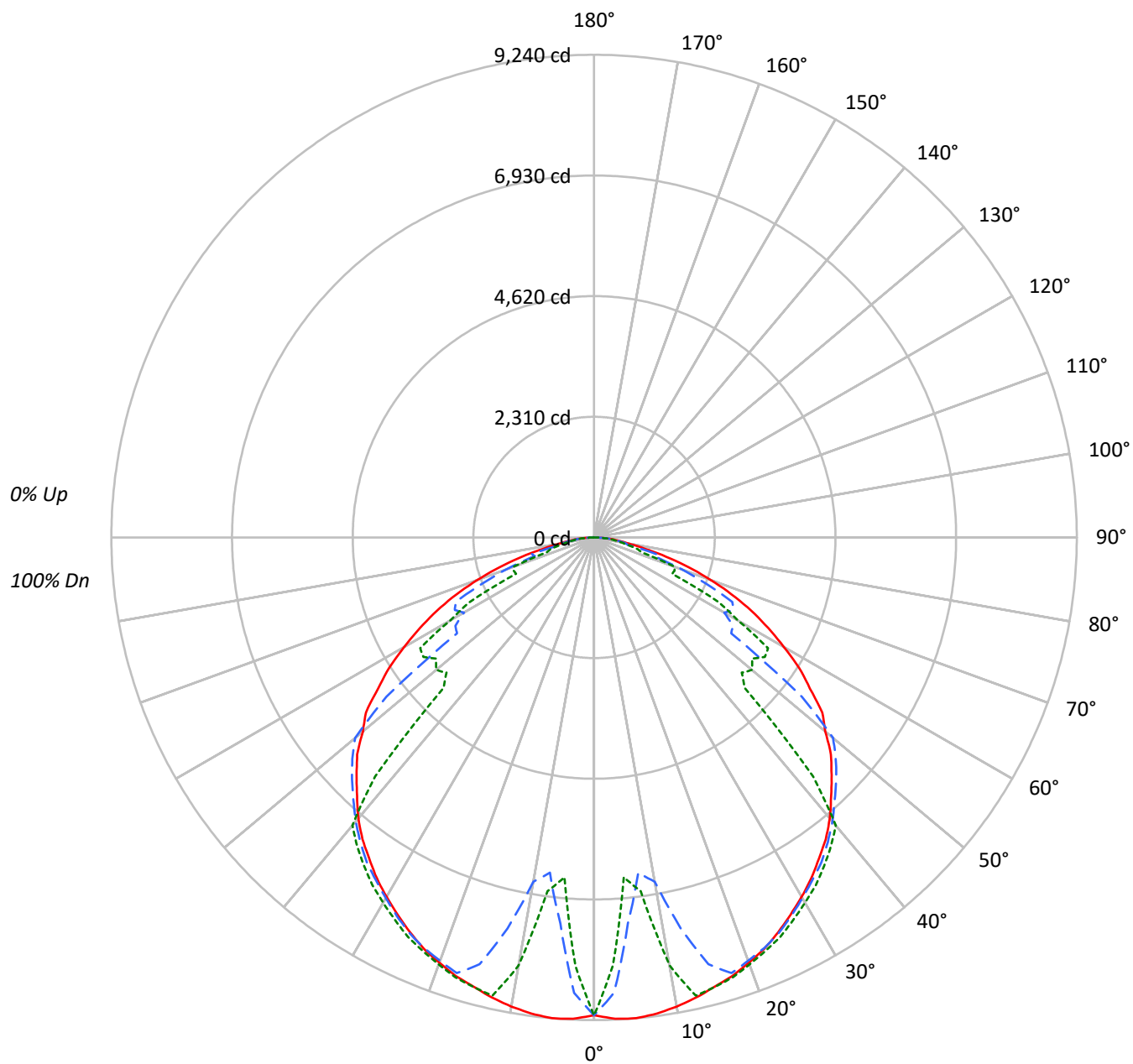
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14771	14771	14771
5°	14976	12031	10581
10°	14950	10972	13646
15°	14884	14142	14897
20°	14884	14816	14948
25°	14858	14891	15027
30°	14814	14863	15055
35°	14791	14955	15130
40°	14793	14954	15169
45°	14677	14964	9299
50°	14511	14994	9911
55°	14205	9016	11233
60°	13550	9294	10286
65°	12696	11158	6294
70°	11211	8454	7715
75°	8933	7684	5350
80°	6153	5553	4598
85°	5897	5126	4863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.5	3.0
10°-20°	2291.8	9.5
20°-30°	3770.5	15.6
30°-40°	4741.0	19.6
40°-50°	4649.7	19.2
50°-60°	3852.5	15.9
60°-70°	2717.3	11.2
70°-80°	1185.5	4.9
80°-90°	296.2	1.2
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°	6793.9	28.0
0°-40°	11534.9	47.6
0°-60°	20037.0	82.7
0°-90°	24236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9148	9148	9148	9148	9148	
5°	9240	8600	7423	6731	6528	877
15°	8904	6184	8460	8939	8912	2518
25°	8340	7631	8358	8414	8435	3844
35°	7504	7500	7587	7638	7676	4702
45°	6428	6448	6554	5804	4073	4962
55°	5046	5211	3203	3642	3990	4515
65°	3323	3519	2921	2247	1647	3268
75°	1432	1404	1232	805	858	1536
85°	318	283	277	265	262	330
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9148.3	9148.3	9148.3	9148.3	9148.3
2.5°	9223.8	9032.3	8728.2	8345.4	8209.8
5°	9240.2	8600.2	7423.2	6730.8	6528.4
7.5°	9193.2	7815.9	6471.6	6617.0	6831.4
10°	9118.8	7126.8	6692.5	7873.9	8323.5
12.5°	9023.6	6514.2	7667.1	8894.5	8984.2
15°	8904.3	6183.9	8460.3	8939.4	8912.0
17.5°	8803.7	6377.4	8744.7	8849.6	8829.9
20°	8662.6	6763.6	8623.2	8707.5	8699.8
22.5°	8520.4	7220.8	8508.3	8568.6	8568.6
25°	8339.9	7631.1	8358.5	8414.3	8435.1
27.5°	8141.9	7867.3	8171.4	8217.3	8254.5
30°	7946.1	7901.3	7972.4	8031.4	8075.1
32.5°	7739.4	7721.9	7777.6	7840.0	7895.7
35°	7504.1	7499.8	7587.3	7637.6	7676.0
37.5°	7283.2	7267.9	7348.8	7418.9	7448.4
40°	7018.5	7018.5	7095.0	7166.1	7196.8
42.5°	6716.5	6759.3	6818.3	6891.5	6206.8
45°	6427.8	6447.5	6553.5	5804.3	4072.6
47.5°	6149.9	6175.0	6275.8	3731.3	3833.1
50°	5776.9	5890.6	5969.4	3720.4	3945.7
52.5°	5504.6	5553.7	5011.1	3683.2	3810.0
55°	5046.2	5211.3	3202.9	3641.6	3990.5
57.5°	4654.6	4774.9	3149.4	3731.3	3947.9
60°	4196.2	4380.0	2878.0	3600.1	3185.4
62.5°	3756.4	3931.5	3005.0	2833.2	2697.5
65°	3323.2	3519.1	2920.7	2246.9	1647.4
67.5°	2848.5	2665.9	2330.0	1582.9	1666.0
70°	2374.9	1861.9	1790.8	1770.0	1634.3
72.5°	1888.1	1358.6	1189.0	1328.0	950.6
75°	1432.0	1403.5	1231.8	805.1	857.6
77.5°	993.2	1013.0	659.6	785.4	651.9
80°	661.8	573.3	597.2	501.0	494.5
82.5°	458.3	468.2	392.7	380.6	386.2
85°	318.3	283.3	276.7	264.8	262.5
87.5°	106.1	123.6	114.9	103.9	110.5
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)