

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: P730725

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730725
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-LD5-24HE-W-WG-UNV-L740
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24381.0 lumens
Efficiency: N/A
Efficacy: 170.5 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

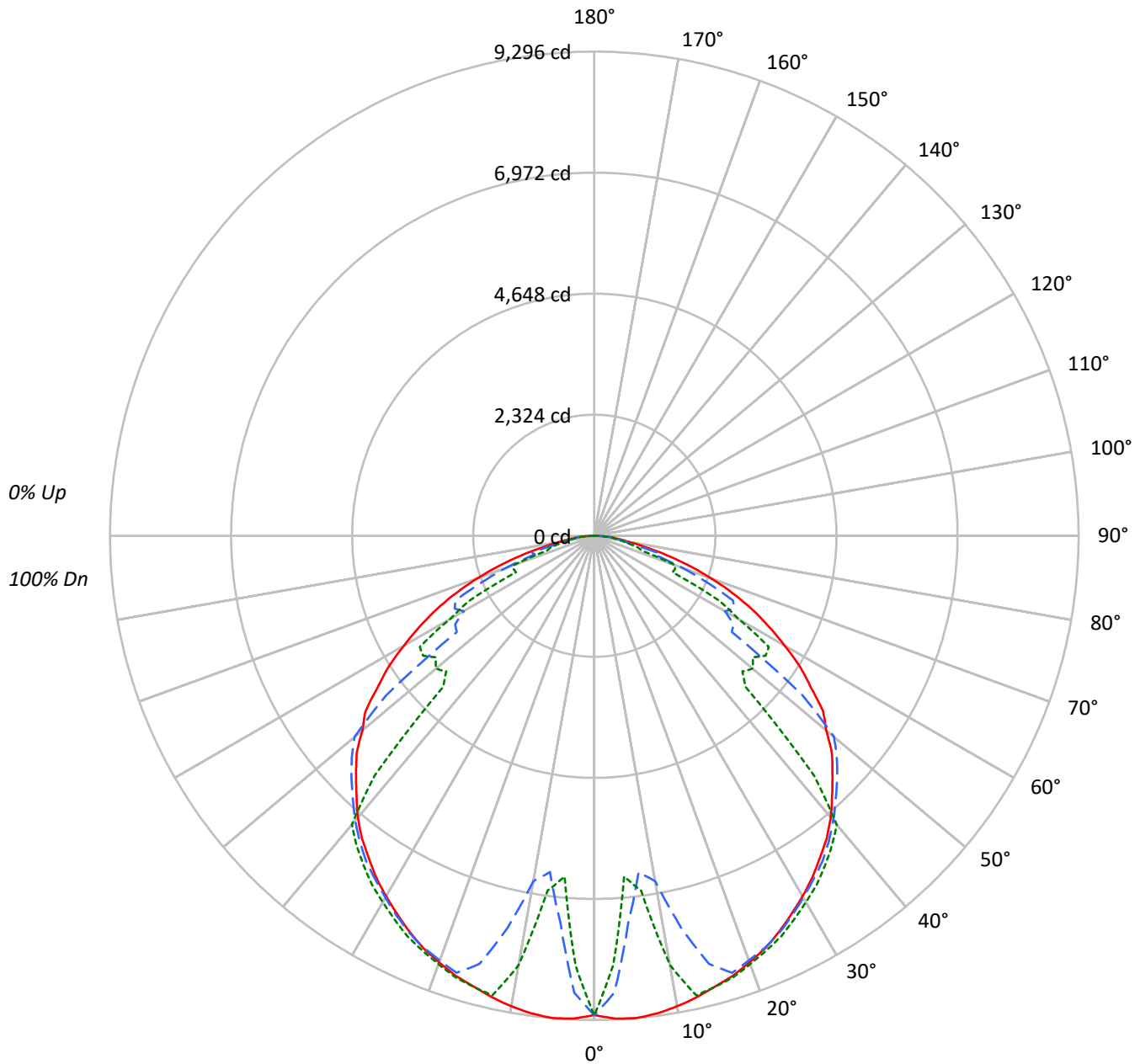
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14859	14859	14859
5°	15066	12103	10644
10°	15040	11038	13728
15°	14973	14226	14986
20°	14973	14905	15037
25°	14946	14980	15117
30°	14903	14952	15145
35°	14879	15044	15220
40°	14881	15044	15259
45°	14765	15054	9355
50°	14598	15084	9970
55°	14290	9070	11300
60°	13631	9349	10348
65°	12772	11225	6331
70°	11278	8504	7761
75°	8986	7730	5382
80°	6191	5586	4625
85°	5932	5157	4893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.9	3.0
10°-20°	2305.5	9.5
20°-30°	3793.1	15.6
30°-40°	4769.3	19.6
40°-50°	4677.5	19.2
50°-60°	3875.5	15.9
60°-70°	2733.5	11.2
70°-80°	1192.6	4.9
80°-90°	298.0	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°	6834.5	28.0
0°-40°	11603.9	47.6
0°-60°	20156.9	82.7
0°-90°	24381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9203	9203	9203	9203	9203	
5°	9296	8652	7468	6771	6567	883
15°	8958	6221	8511	8993	8965	2533
25°	8390	7677	8408	8465	8486	3867
35°	7549	7545	7633	7683	7722	4730
45°	6466	6486	6593	5839	4097	4991
55°	5076	5242	3222	3663	4014	4542
65°	3343	3540	2938	2260	1657	3287
75°	1440	1412	1239	810	863	1545
85°	320	285	278	266	264	332
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9203.1	9203.1	9203.1	9203.1	9203.1
2.5°	9279.0	9086.4	8780.5	8395.3	8258.9
5°	9295.5	8651.7	7467.6	6771.1	6567.4
7.5°	9248.2	7862.7	6510.3	6656.5	6872.3
10°	9173.3	7169.4	6732.6	7921.0	8373.3
12.5°	9077.6	6553.2	7713.0	8947.7	9037.9
15°	8957.6	6220.9	8510.9	8992.9	8965.3
17.5°	8856.4	6415.6	8797.0	8902.6	8882.8
20°	8714.4	6804.1	8674.8	8759.5	8751.8
22.5°	8571.4	7264.0	8559.2	8619.8	8619.8
25°	8389.8	7676.7	8408.5	8464.7	8485.6
27.5°	8190.6	7914.4	8220.3	8266.5	8303.9
30°	7993.6	7948.6	8020.1	8079.5	8123.5
32.5°	7785.7	7768.1	7824.2	7886.9	7943.0
35°	7549.0	7544.6	7632.7	7683.3	7721.9
37.5°	7326.7	7311.4	7392.8	7463.2	7492.9
40°	7060.5	7060.5	7137.5	7209.0	7239.9
42.5°	6756.7	6799.7	6859.1	6932.8	6243.9
45°	6466.2	6486.0	6592.7	5839.0	4097.0
47.5°	6186.7	6212.0	6313.3	3753.6	3856.0
50°	5811.5	5925.9	6005.1	3742.7	3969.3
52.5°	5537.5	5586.9	5041.1	3705.2	3832.8
55°	5076.4	5242.5	3222.1	3663.4	4014.4
57.5°	4682.4	4803.5	3168.2	3753.6	3971.5
60°	4221.3	4406.2	2895.2	3621.6	3204.5
62.5°	3778.9	3955.0	3022.9	2850.2	2713.7
65°	3343.1	3540.1	2938.2	2260.3	1657.2
67.5°	2865.5	2681.8	2343.9	1592.4	1676.0
70°	2389.1	1873.0	1801.5	1780.6	1644.1
72.5°	1899.4	1366.8	1196.2	1336.0	956.3
75°	1440.5	1411.9	1239.2	809.9	862.8
77.5°	999.2	1019.0	663.5	790.1	655.8
80°	665.8	576.7	600.8	504.0	497.4
82.5°	461.1	471.0	395.0	382.9	388.5
85°	320.2	285.0	278.4	266.4	264.1
87.5°	106.7	124.4	115.6	104.5	111.2
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)