

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: P730683

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-A-UNV-L740
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22629.0 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

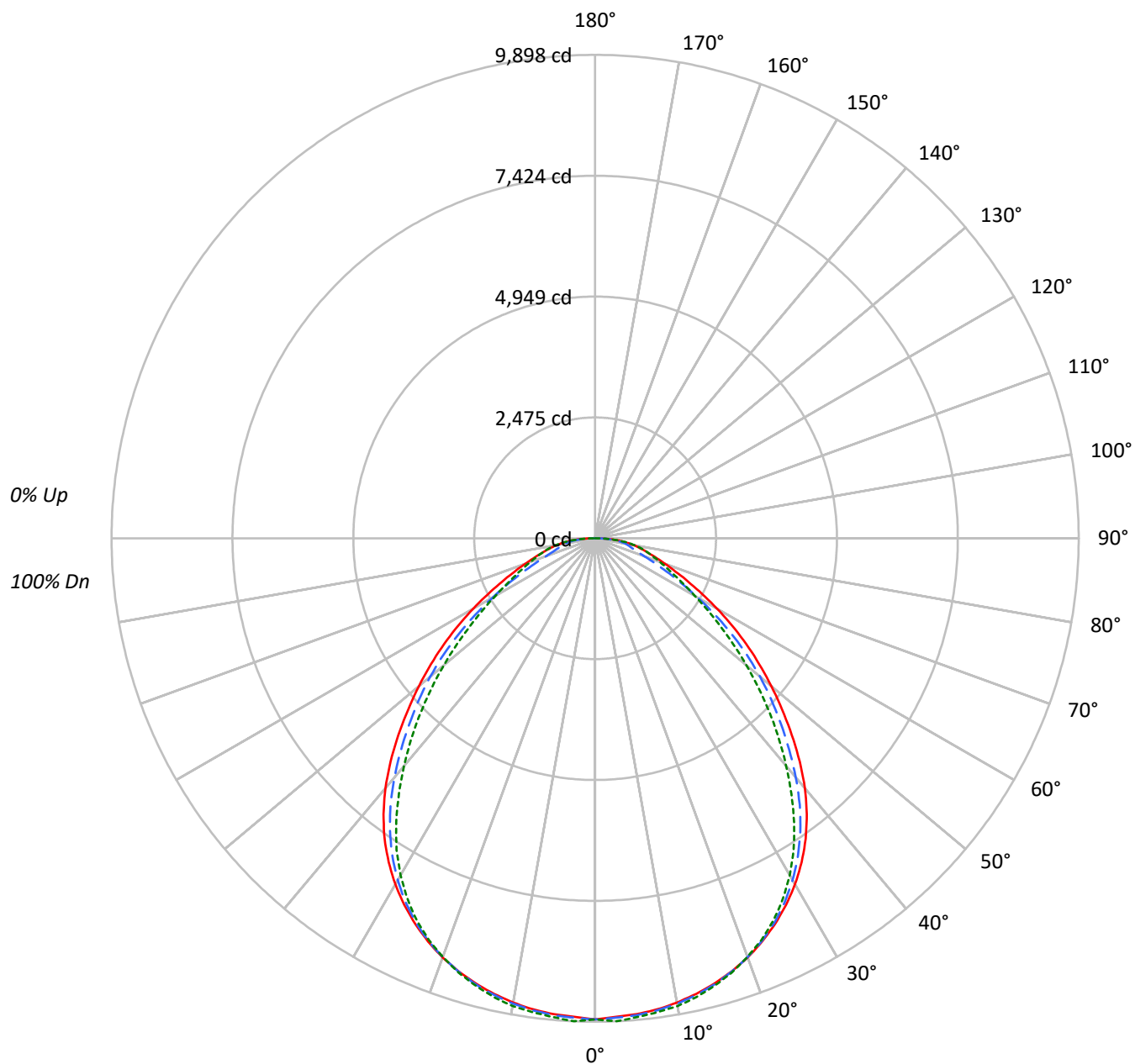
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15905	15905	15905
5°	15849	15885	15950
10°	15826	15863	15943
15°	15773	15805	15842
20°	15691	15679	15668
25°	15521	15467	15380
30°	15253	15068	14849
35°	14809	14437	13992
40°	14073	13469	12822
45°	13001	12275	11532
50°	11818	11053	10144
55°	10626	9569	8769
60°	9299	7820	7609
65°	8018	6150	6867
70°	7148	5019	6618
75°	6847	4900	6916
80°	7407	5795	7705
85°	8316	6977	8398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.6	4.1
10°-20°	2671.9	11.8
20°-30°	3996.9	17.7
30°-40°	4560.2	20.2
40°-50°	4151.0	18.3
50°-60°	3048.1	13.5
60°-70°	1799.7	8.0
70°-80°	1031.4	4.6
80°-90°	436.1	1.9
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°	7602.5	33.6
0°-40°	12162.7	53.7
0°-60°	19361.8	85.6
0°-90°	22629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9851	9851	9851	9851	9851	
5°	9779	9840	9801	9840	9841	930
15°	9436	9489	9455	9489	9478	2663
25°	8712	8743	8682	8679	8633	4010
35°	7513	7477	7324	7199	7099	4681
45°	5694	5660	5376	5135	5050	4388
55°	3775	3601	3400	3153	3115	3376
65°	2099	1832	1610	1722	1798	2112
75°	1098	941	785	1024	1109	1183
85°	449	414	377	444	453	469
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9850.7	9850.7	9850.7	9850.7	9850.7
2.5°	9805.2	9861.9	9826.3	9865.2	9898.5
5°	9778.6	9839.7	9800.8	9839.7	9840.8
7.5°	9729.7	9786.3	9748.6	9790.8	9786.3
10°	9653.0	9709.7	9675.3	9720.8	9724.2
12.5°	9555.2	9609.7	9574.2	9626.4	9617.5
15°	9436.4	9488.6	9455.2	9488.6	9477.5
17.5°	9296.4	9344.2	9300.9	9337.6	9318.7
20°	9132.0	9172.0	9125.3	9159.7	9118.7
22.5°	8935.4	8970.9	8922.0	8940.9	8898.7
25°	8712.1	8743.1	8682.0	8678.7	8633.2
27.5°	8463.2	8479.9	8402.1	8375.4	8323.2
30°	8181.1	8185.5	8082.2	8032.2	7964.4
32.5°	7864.4	7853.3	7721.1	7646.7	7563.3
35°	7513.3	7476.7	7324.5	7199.0	7099.0
37.5°	7116.8	7059.0	6876.8	6691.3	6595.7
40°	6676.8	6609.1	6390.2	6160.2	6083.6
42.5°	6198.0	6140.3	5882.5	5642.5	5567.0
45°	5693.6	5660.3	5375.8	5134.8	5050.3
47.5°	5189.2	5164.8	4887.1	4641.6	4539.3
50°	4704.9	4651.5	4400.5	4131.6	4038.3
52.5°	4234.9	4126.0	3905.0	3629.5	3560.6
55°	3775.0	3600.6	3399.5	3152.9	3115.1
57.5°	3319.5	3094.0	2898.5	2714.0	2713.0
60°	2879.6	2621.8	2421.8	2325.2	2356.4
62.5°	2467.4	2203.0	1986.4	1993.0	2049.7
65°	2098.6	1831.9	1609.7	1722.0	1797.5
67.5°	1782.0	1527.5	1302.0	1510.9	1583.1
70°	1514.2	1284.2	1063.2	1324.2	1402.0
72.5°	1288.7	1095.4	896.6	1168.7	1247.6
75°	1097.6	940.9	785.4	1024.3	1108.7
77.5°	942.1	803.2	704.4	886.5	974.3
80°	796.6	674.4	623.3	753.3	828.7
82.5°	631.0	546.6	516.6	612.1	651.0
85°	448.9	414.4	376.6	444.4	453.3
87.5°	246.6	255.5	211.0	255.5	256.6
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)