

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: P730714

Luminaire Tested: **HBLED-LD5-24HE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-FLI-UNV-L750
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23411.0 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

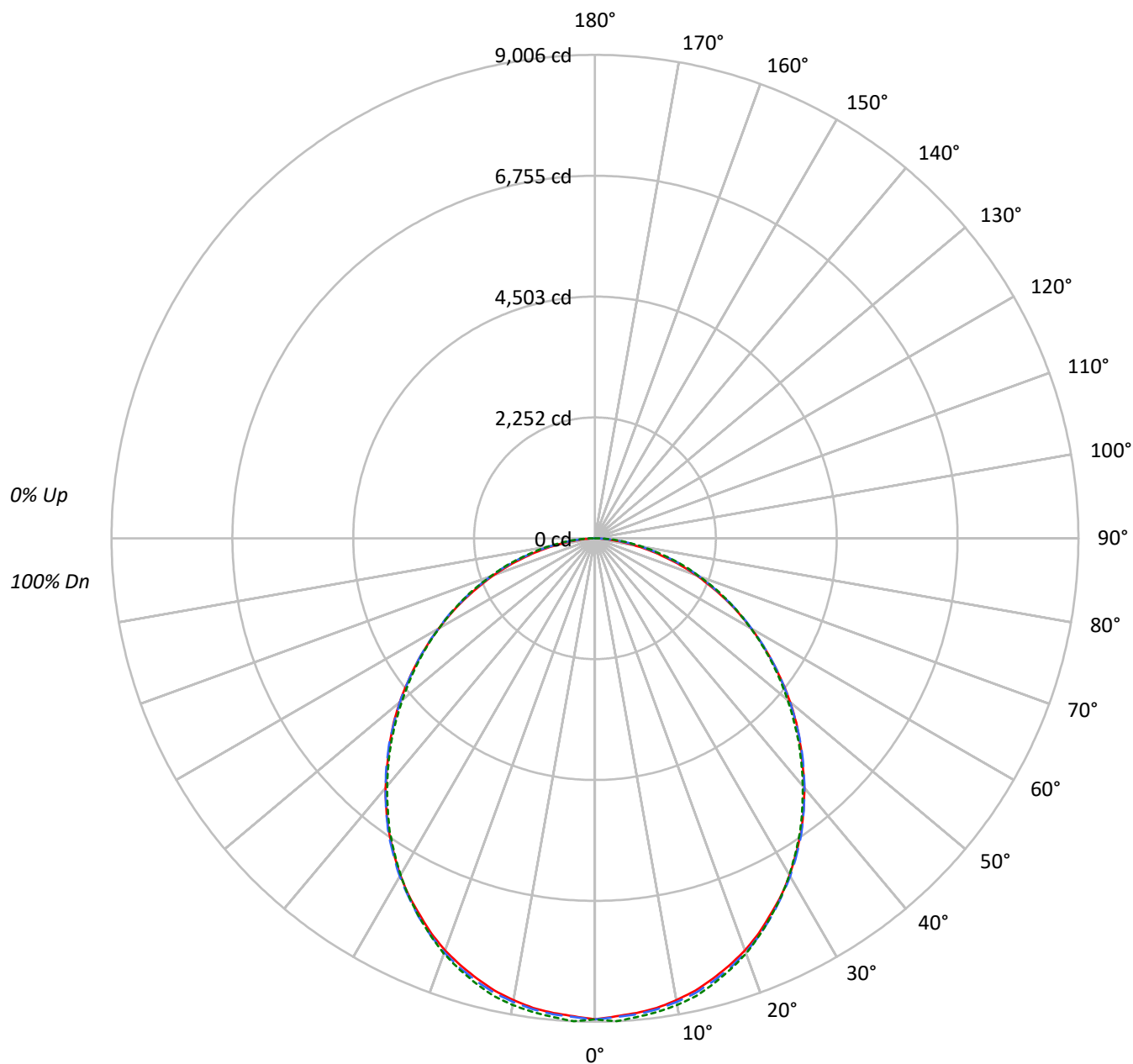
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14471	14471	14471
5°	14388	14429	14511
10°	14323	14381	14474
15°	14197	14274	14344
20°	14036	14104	14145
25°	13776	13855	13834
30°	13522	13559	13503
35°	13187	13221	13137
40°	12791	12791	12693
45°	12344	12378	12251
50°	11920	11899	11751
55°	11404	11405	11303
60°	10852	10864	10822
65°	10227	10330	10356
70°	9446	9705	9715
75°	8348	8889	9027
80°	6847	7784	8225
85°	4752	6536	7392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.6	3.6
10°-20°	2411.3	10.3
20°-30°	3583.3	15.3
30°-40°	4189.9	17.9
40°-50°	4177.4	17.8
50°-60°	3624.4	15.5
60°-70°	2677.1	11.4
70°-80°	1498.9	6.4
80°-90°	399.9	1.7
90°-100°	1.2	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°	6842.3	29.2
0°-40°	11032.1	47.1
0°-60°	18833.9	80.4
0°-90°	23409.8	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	23411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8962	8962	8962	8962	8962	
5°	8878	8933	8902	8942	8953	843
15°	8493	8553	8540	8581	8581	2395
25°	7733	7795	7777	7794	7766	3565
35°	6691	6749	6708	6706	6665	4179
45°	5406	5464	5421	5398	5365	4173
55°	4051	4079	4052	4045	4015	3623
65°	2677	2703	2704	2718	2711	2648
75°	1338	1378	1425	1435	1447	1425
85°	256	310	353	384	399	311
90°	0	6	7	15	14	10
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8962.4	8962.4	8962.4	8962.4	8962.4
2.5°	8913.4	8966.5	8929.3	8964.7	9005.8
5°	8877.5	8933.4	8902.5	8941.8	8953.3
7.5°	8825.1	8879.2	8849.6	8888.9	8900.9
10°	8736.1	8794.9	8771.5	8816.0	8828.5
12.5°	8632.4	8687.7	8672.3	8724.1	8732.7
15°	8493.4	8552.7	8539.5	8580.6	8581.1
17.5°	8339.5	8395.3	8385.6	8417.6	8416.4
20°	8169.1	8228.8	8208.4	8243.1	8232.3
22.5°	7967.3	8031.1	8005.4	8034.5	8007.2
25°	7733.0	7795.2	7777.0	7794.0	7765.5
27.5°	7506.2	7563.2	7525.5	7546.1	7515.9
30°	7253.1	7301.5	7272.5	7279.4	7242.9
32.5°	6968.7	7026.3	6990.9	6989.8	6951.0
35°	6690.6	6749.3	6707.7	6706.5	6665.0
37.5°	6382.8	6437.5	6388.5	6391.4	6342.9
40°	6068.8	6116.1	6068.8	6066.5	6022.1
42.5°	5727.9	5790.6	5747.4	5752.4	5693.2
45°	5406.0	5463.5	5420.8	5398.5	5365.4
47.5°	5085.1	5110.2	5074.8	5069.1	5022.4
50°	4745.4	4764.2	4737.3	4730.5	4678.1
52.5°	4394.3	4426.8	4392.5	4383.4	4348.7
55°	4051.2	4079.1	4051.7	4044.9	4015.2
57.5°	3705.8	3742.3	3714.4	3707.5	3683.6
60°	3360.5	3371.2	3364.4	3374.6	3351.3
62.5°	3017.3	3042.3	3050.4	3047.5	3029.3
65°	2677.0	2703.3	2703.8	2717.5	2710.6
67.5°	2328.8	2363.0	2372.7	2386.9	2393.2
70°	2001.0	2027.3	2055.8	2064.3	2058.0
72.5°	1671.1	1713.2	1745.2	1752.6	1779.4
75°	1338.2	1378.1	1424.9	1435.1	1447.1
77.5°	1029.3	1082.3	1124.5	1138.2	1153.0
80°	736.4	795.1	837.2	856.0	884.6
82.5°	483.3	543.2	585.9	604.7	639.5
85°	256.5	310.1	352.8	384.1	399.0
87.5°	75.8	121.4	145.9	155.0	168.2
90°	0.0	5.7	6.8	15.4	14.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)