

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: P730700

Luminaire Tested: **HBLED-LD5-24HE-W-CL-WG-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CL-WG-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22163.0 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

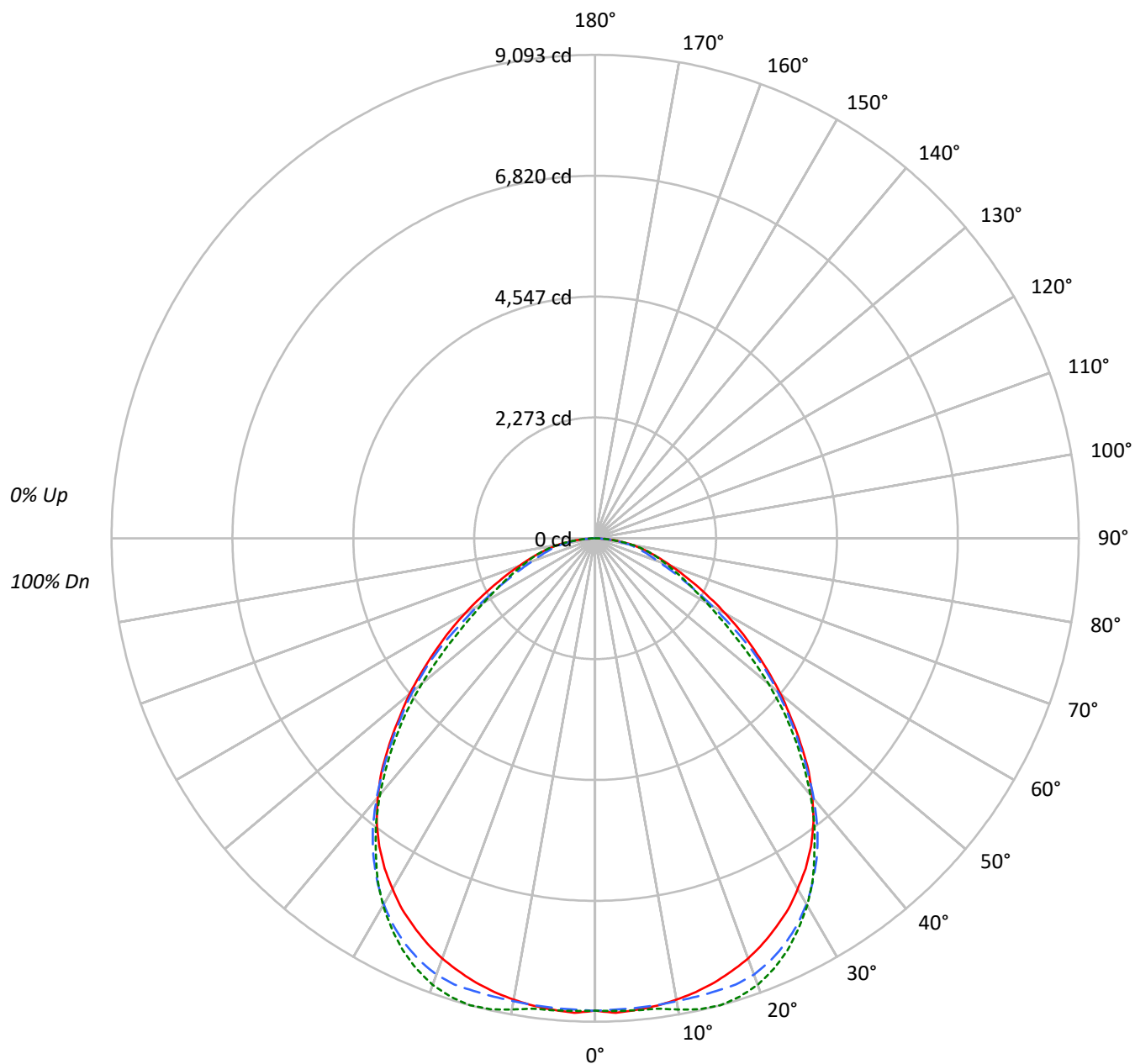
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14349	14349	14349
5°	14433	14373	14444
10°	14446	14495	14754
15°	14464	14736	15199
20°	14454	15005	15356
25°	14366	15019	15239
30°	14200	14820	14867
35°	13947	14340	14168
40°	13397	13479	13266
45°	12483	12352	12101
50°	11429	11245	10669
55°	10266	9885	9020
60°	9104	8179	7787
65°	8021	6795	7067
70°	7174	5898	6731
75°	6721	5734	6807
80°	6543	5797	6479
85°	5222	4587	4755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.5	3.8
10°-20°	2493.6	11.3
20°-30°	3836.1	17.3
30°-40°	4476.9	20.2
40°-50°	4160.2	18.8
50°-60°	3083.7	13.9
60°-70°	1885.1	8.5
70°-80°	1073.8	4.8
80°-90°	307.1	1.4
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°	7176.2	32.4
0°-40°	11653.1	52.6
0°-60°	18897.0	85.3
0°-90°	22163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8887	8887	8887	8887	8887	
5°	8905	8864	8868	8862	8912	847
15°	8653	8648	8816	8990	9093	2442
25°	8064	8126	8431	8502	8554	3715
35°	7076	7131	7275	7216	7188	4409
45°	5467	5499	5410	5325	5300	4212
55°	3647	3555	3512	3262	3204	3273
65°	2100	1907	1779	1827	1850	2101
75°	1077	1011	919	1048	1091	1153
85°	282	275	248	257	257	325
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8886.8	8886.8	8886.8	8886.8	8886.8
2.5°	8934.9	8884.4	8875.2	8854.7	8900.4
5°	8905.1	8863.8	8868.3	8861.5	8912.0
7.5°	8870.7	8840.9	8859.2	8856.9	8923.4
10°	8811.1	8795.0	8840.9	8891.3	8999.1
12.5°	8744.6	8728.6	8829.4	8957.7	9074.7
15°	8653.0	8648.3	8815.7	8989.8	9093.0
17.5°	8538.3	8545.2	8799.6	8948.6	9040.3
20°	8412.3	8423.7	8733.1	8854.7	8937.2
22.5°	8249.5	8288.5	8604.8	8705.6	8769.8
25°	8063.8	8125.7	8430.6	8501.7	8554.3
27.5°	7864.4	7926.3	8215.1	8251.8	8281.6
30°	7616.8	7703.9	7949.2	7953.8	7974.4
32.5°	7364.7	7442.7	7630.6	7610.0	7614.5
35°	7075.9	7130.9	7275.3	7215.8	7188.2
37.5°	6743.6	6773.3	6865.0	6775.7	6771.0
40°	6356.1	6395.1	6395.1	6271.4	6294.3
42.5°	5943.6	5957.3	5900.1	5783.1	5801.4
45°	5466.8	5498.9	5409.5	5324.7	5299.5
47.5°	4994.6	5026.7	4932.7	4834.2	4790.7
50°	4550.0	4533.9	4476.6	4309.3	4247.4
52.5°	4089.2	4038.8	4015.9	3770.7	3699.6
55°	3646.8	3555.2	3511.6	3261.7	3204.4
57.5°	3236.5	3071.5	2989.0	2794.2	2771.2
60°	2819.4	2633.7	2532.8	2406.8	2411.3
62.5°	2441.2	2246.3	2124.9	2088.2	2104.2
65°	2099.6	1907.0	1778.7	1826.8	1849.7
67.5°	1790.2	1632.0	1487.6	1599.9	1622.8
70°	1519.7	1393.7	1249.3	1414.3	1425.8
72.5°	1295.0	1191.9	1070.4	1226.3	1251.5
75°	1077.3	1010.9	919.1	1047.5	1091.1
77.5°	887.0	834.4	781.6	859.6	907.7
80°	703.7	651.0	623.5	664.7	696.8
82.5°	497.4	463.1	435.5	465.3	481.4
85°	281.9	275.0	247.6	256.7	256.7
87.5°	64.2	73.3	82.5	75.6	64.2
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)