

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: P730667

Luminaire Tested: **HBLED-LD5-24HE-N-CL-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CL-WG-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21187.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

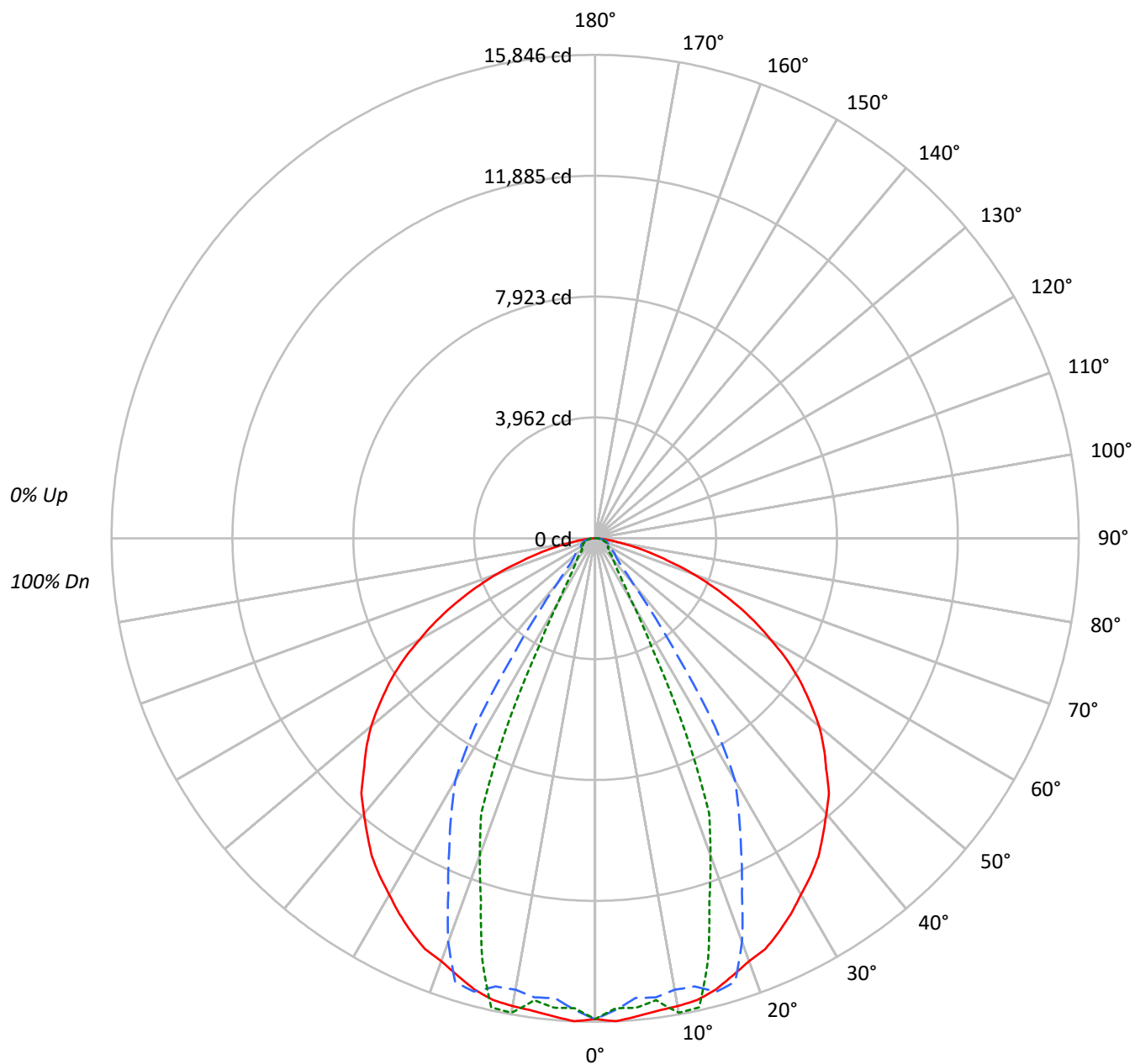
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25446	25446	25446
5°	25488	24517	25034
10°	25525	24635	25899
15°	25582	25715	23900
20°	25340	24186	18971
25°	25376	20163	12392
30°	25149	17081	4452
35°	25122	9253	2504
40°	24838	4034	1961
45°	24454	2493	1538
50°	24073	2172	1451
55°	23126	1883	1420
60°	21457	1688	1526
65°	19287	1907	1668
70°	16176	2051	1720
75°	12092	2339	1862
80°	7595	2716	2123
85°	5057	3403	3109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1460.7	6.9
10°-20°	4124.8	19.5
20°-30°	5050.9	23.8
30°-40°	3966.5	18.7
40°-50°	2941.4	13.9
50°-60°	1790.7	8.5
60°-70°	1072.6	5.1
70°-80°	588.5	2.8
80°-90°	190.9	0.9
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°	10636.4	50.2
0°-40°	14602.9	68.9
0°-60°	19335.0	91.3
0°-90°	21187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15760	15760	15760	15760	15760	
5°	15726	15298	15127	15294	15446	###
15°	15304	14885	15384	14763	14298	4309
25°	14244	14289	11318	8877	6956	6557
35°	12746	11594	4695	1571	1270	7953
45°	10710	7690	1092	827	673	8282
55°	8216	2119	669	566	504	7311
65°	5048	624	499	470	436	4988
75°	1938	394	375	326	298	2099
85°	273	215	184	169	168	333
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15760.0	15760.0	15760.0	15760.0	15760.0
2.5°	15846.0	15632.5	15469.0	15377.6	15414.7
5°	15725.9	15297.9	15126.9	15293.7	15445.6
7.5°	15621.8	14985.7	15178.9	15193.9	15273.5
10°	15568.8	14955.9	15026.0	15356.3	15797.1
12.5°	15498.7	15025.0	15049.4	15499.7	15748.2
15°	15304.3	14884.7	15384.0	14762.6	14298.4
17.5°	15020.7	14557.6	15243.7	13078.1	12447.2
20°	14747.7	14201.8	14076.5	11649.5	11040.9
22.5°	14571.4	14147.7	12574.7	10380.2	9751.4
25°	14244.3	14288.9	11318.1	8877.3	6955.9
27.5°	13884.2	13956.5	10207.1	5920.4	3985.1
30°	13489.1	13572.0	9161.9	3498.6	2387.7
32.5°	13131.2	12663.8	7317.0	2182.7	1660.1
35°	12745.6	11594.2	4694.6	1570.9	1270.3
37.5°	12260.3	10470.5	2971.8	1242.7	1066.4
40°	11784.4	9461.5	1914.0	1061.0	930.5
42.5°	11339.3	8629.9	1392.5	927.3	840.2
45°	10709.5	7689.8	1091.9	827.4	673.4
47.5°	10164.6	6587.4	954.8	700.0	581.0
50°	9583.6	5036.7	864.6	622.4	577.8
52.5°	8894.3	3294.7	798.7	595.9	539.5
55°	8215.6	2119.0	669.1	566.1	504.5
57.5°	7482.7	1343.6	590.6	549.1	526.8
60°	6644.7	906.0	522.6	520.4	472.6
62.5°	5869.3	744.6	504.5	499.2	447.2
65°	5048.3	624.5	499.2	469.5	436.5
67.5°	4228.3	535.3	451.4	429.1	400.4
70°	3426.5	489.7	434.4	424.9	364.3
72.5°	2602.2	403.6	385.6	360.1	302.8
75°	1938.4	394.0	374.9	326.0	298.5
77.5°	1311.7	363.3	341.0	292.1	269.8
80°	816.8	333.5	292.1	256.0	228.3
82.5°	485.4	278.3	240.1	211.4	193.3
85°	273.0	214.6	183.7	168.9	167.8
87.5°	58.4	77.5	61.6	58.4	41.4
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)