

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: P730659

Luminaire Tested: **HBLED-LD5-24HE-N-CL-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
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-UNV-L740
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23221.0 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

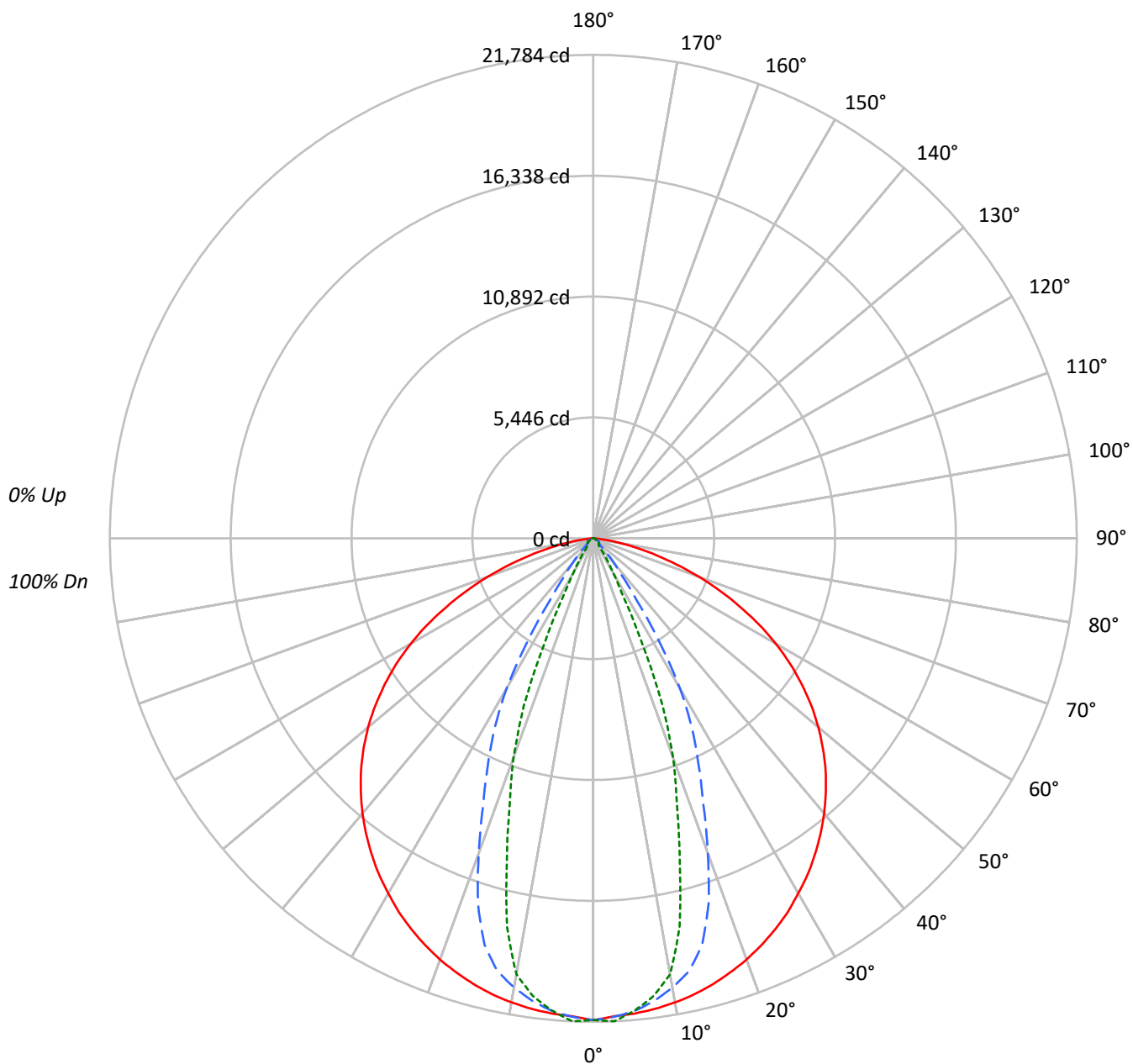
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35056	35056	35056
5°	34841	34659	34634
10°	34817	33701	32706
15°	34777	31691	25148
20°	34710	25934	18038
25°	34601	19981	9166
30°	34437	14583	3335
35°	34314	6697	1161
40°	34103	3040	801
45°	33800	1134	812
50°	33261	823	854
55°	32276	866	651
60°	30672	925	574
65°	27815	705	467
70°	23849	508	430
75°	18229	451	409
80°	11406	424	444
85°	3603	495	598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2021.4	8.7
10°-20°	5092.1	21.9
20°-30°	5545.5	23.9
30°-40°	4148.3	17.9
40°-50°	2982.7	12.8
50°-60°	1831.9	7.9
60°-70°	1054.1	4.5
70°-80°	470.5	2.0
80°-90°	74.6	0.3
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°	12658.9	54.5
0°-40°	16807.2	72.4
0°-60°	21621.8	93.1
0°-90°	23221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21712	21712	21712	21712	21712	
5°	21497	21598	21384	21404	21369	###
15°	20806	20407	18959	16283	15045	5873
25°	19422	18029	11216	7196	5145	8953
35°	17409	12486	3398	999	589	10890
45°	14803	7015	497	368	356	11403
55°	11466	1458	308	298	231	10223
65°	7281	160	184	153	122	7207
75°	2922	97	72	74	66	3171
85°	194	19	27	34	32	387
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21712.2	21712.2	21712.2	21712.2	21712.2
2.5°	21561.2	21702.2	21583.3	21690.0	21784.4
5°	21496.7	21597.8	21384.5	21404.4	21369.0
7.5°	21385.6	21410.0	21024.5	20875.6	20803.4
10°	21236.7	21171.2	20555.6	20201.3	19949.0
12.5°	21049.0	20832.3	19972.3	18706.8	17952.5
15°	20805.6	20406.8	18959.1	16282.6	15044.8
17.5°	20515.7	19962.3	17281.3	13570.4	12499.4
20°	20201.3	19471.2	15093.6	11538.4	10498.3
22.5°	19830.1	18843.5	12936.0	9596.2	8168.5
25°	19422.4	18029.1	11216.1	7196.3	5145.3
27.5°	18982.4	16954.7	9623.9	4413.1	2782.1
30°	18471.3	15647.0	7821.8	2476.6	1788.8
32.5°	17972.4	14122.7	5587.5	1649.9	1143.3
35°	17409.1	12486.1	3397.6	998.9	588.8
37.5°	16812.4	10998.3	2126.6	543.3	406.6
40°	16180.3	9587.3	1442.1	385.6	380.0
42.5°	15504.7	8310.7	903.2	366.6	378.8
45°	14802.6	7015.2	496.6	367.8	355.6
47.5°	14040.4	5608.6	346.7	347.7	346.7
50°	13241.6	4023.1	327.8	343.4	340.0
52.5°	12380.5	2497.7	328.9	335.5	301.1
55°	11466.1	1457.7	307.8	297.8	231.1
57.5°	10505.0	908.8	301.1	245.6	207.7
60°	9498.4	480.0	286.6	221.1	177.7
62.5°	8426.2	236.7	229.9	188.9	145.6
65°	7280.7	160.0	184.5	153.3	122.2
67.5°	6174.1	144.4	138.9	125.5	106.7
70°	5052.0	132.2	107.7	110.0	91.1
72.5°	3951.0	120.0	86.6	94.4	76.6
75°	2922.1	96.7	72.3	74.4	65.6
77.5°	2033.2	75.6	56.7	63.4	61.1
80°	1226.7	47.8	45.6	52.2	47.8
82.5°	594.4	31.1	35.6	41.1	37.7
85°	194.5	18.9	26.7	34.4	32.3
87.5°	24.4	11.1	22.2	30.0	27.8
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)