

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: P730658

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730658
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-L735
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: 22538.0 lumens
Efficiency: N/A
Efficacy: 157.6 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

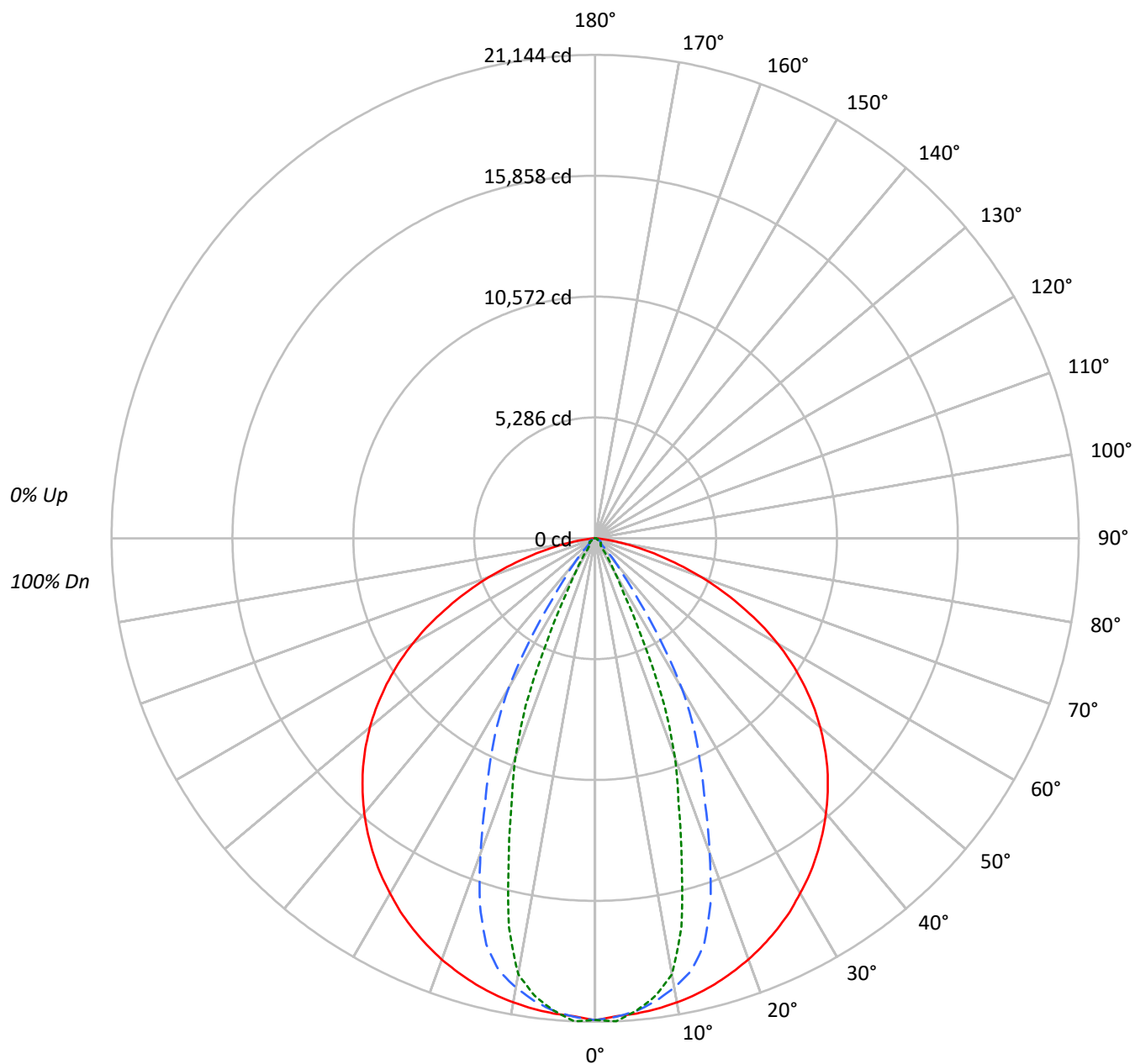
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95
2	105	99	94	90	102	97	92	89	94	90	87		91	87	85		88
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61
8	72	61	55	50	71	61	54	50	60	54	49		59	53	49		58
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34025	34025	34025
5°	33816	33640	33615
10°	33793	32710	31744
15°	33755	30759	24408
20°	33689	25171	17508
25°	33583	19394	8897
30°	33424	14154	3237
35°	33305	6500	1126
40°	33100	2950	777
45°	32806	1101	788
50°	32283	799	829
55°	31327	841	631
60°	29770	898	557
65°	26998	684	453
70°	23148	494	417
75°	17692	437	397
80°	11070	411	431
85°	3496	480	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1961.9	8.7
10°-20°	4942.3	21.9
20°-30°	5382.4	23.9
30°-40°	4026.3	17.9
40°-50°	2895.0	12.8
50°-60°	1778.0	7.9
60°-70°	1023.1	4.5
70°-80°	456.6	2.0
80°-90°	72.4	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°	12286.6	54.5
0°-40°	16312.9	72.4
0°-60°	20985.9	93.1
0°-90°	22538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21074	21074	21074	21074	21074	
5°	20864	20963	20756	20775	20740	###
15°	20194	19806	18401	15804	14602	5700
25°	18851	17499	10886	6985	4994	8690
35°	16897	12119	3298	970	572	10570
45°	14367	6809	482	357	345	11068
55°	11129	1415	299	289	224	9922
65°	7067	155	179	149	119	6995
75°	2836	94	70	72	64	3078
85°	189	18	26	33	31	376
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21073.6	21073.6	21073.6	21073.6	21073.6
2.5°	20927.0	21063.9	20948.5	21052.0	21143.7
5°	20864.4	20962.6	20755.5	20774.9	20740.4
7.5°	20756.6	20780.3	20406.1	20261.6	20191.5
10°	20612.0	20548.5	19951.0	19607.1	19362.3
12.5°	20429.9	20219.6	19384.8	18156.6	17424.4
15°	20193.7	19806.5	18401.4	15803.6	14602.3
17.5°	19912.2	19375.2	16773.0	13171.2	12131.7
20°	19607.1	18898.5	14649.7	11199.0	10189.5
22.5°	19246.9	18289.3	12555.5	9313.9	7928.3
25°	18851.1	17498.8	10886.2	6984.7	4994.0
27.5°	18424.1	16456.0	9340.9	4283.3	2700.3
30°	17928.0	15186.8	7591.8	2403.7	1736.2
32.5°	17443.8	13707.3	5423.2	1601.3	1109.6
35°	16897.0	12118.8	3297.7	969.5	571.5
37.5°	16317.9	10674.8	2064.0	527.3	394.6
40°	15704.4	9305.3	1399.7	374.2	368.8
42.5°	15048.7	8066.2	876.7	355.8	367.7
45°	14367.2	6808.8	482.0	357.0	345.1
47.5°	13627.5	5443.7	336.5	337.5	336.5
50°	12852.1	3904.8	318.2	333.3	330.0
52.5°	12016.3	2424.2	319.2	325.7	292.3
55°	11128.8	1414.8	298.7	289.0	224.3
57.5°	10196.0	882.1	292.3	238.4	201.6
60°	9219.0	465.9	278.2	214.6	172.5
62.5°	8178.4	229.7	223.2	183.3	141.3
65°	7066.6	155.3	179.1	148.8	118.6
67.5°	5992.5	140.1	134.8	121.8	103.5
70°	4903.4	128.3	104.6	106.7	88.4
72.5°	3834.7	116.4	84.1	91.7	74.4
75°	2836.1	93.8	70.1	72.2	63.7
77.5°	1973.4	73.4	55.0	61.5	59.3
80°	1190.6	46.4	44.2	50.7	46.4
82.5°	576.9	30.2	34.5	39.8	36.6
85°	188.7	18.3	25.9	33.4	31.3
87.5°	23.7	10.8	21.5	29.1	26.9
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)