

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: P730676

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24062.0 lumens
Efficiency: N/A
Efficacy: 168.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

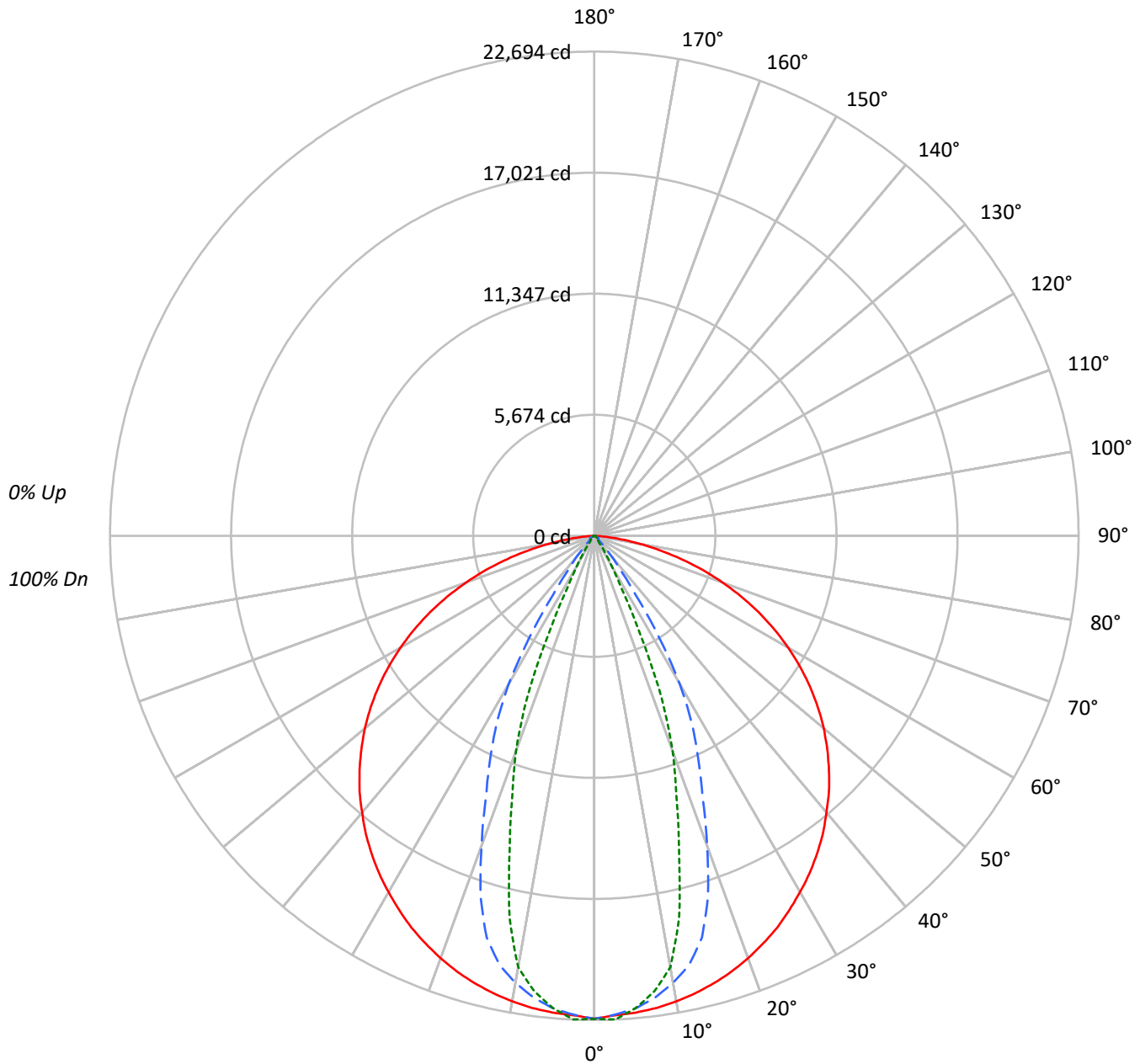
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36552	36552	36552
5°	36356	36035	36020
10°	36334	34881	33657
15°	36283	32587	25615
20°	36198	26565	18438
25°	36106	20540	9083
30°	35946	14928	2946
35°	35861	6623	758
40°	35674	2690	511
45°	35514	755	543
50°	35237	536	603
55°	34730	636	258
60°	33872	709	157
65°	32479	452	185
70°	30174	402	229
75°	26396	303	316
80°	19736	371	451
85°	9776	478	598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2100.9	8.7
10°-20°	5253.3	21.8
20°-30°	5690.1	23.6
30°-40°	4213.8	17.5
40°-50°	3035.0	12.6
50°-60°	1879.2	7.8
60°-70°	1155.7	4.8
70°-80°	609.3	2.5
80°-90°	124.7	0.5
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°	13044.3	54.2
0°-40°	17258.1	71.7
0°-60°	22172.3	92.1
0°-90°	24062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22639	22639	22639	22639	22639	
5°	22432	22515	22234	22250	22224	###
15°	21706	21202	19495	16579	15324	6127
25°	20267	18565	11530	7253	5098	9339
35°	18194	12826	3360	790	384	11382
45°	15553	7226	331	239	238	11995
55°	12338	1488	226	205	92	11014
65°	8501	157	118	75	48	8388
75°	4231	37	48	64	51	4469
85°	528	14	26	39	32	797
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22638.6	22638.6	22638.6	22638.6	22638.6
2.5°	22493.2	22636.5	22467.4	22593.4	22693.6
5°	22431.8	22514.8	22233.7	22249.8	22224.0
7.5°	22324.1	22304.8	21832.0	21625.2	21534.8
10°	22161.6	22033.4	21275.2	20843.4	20528.9
12.5°	21951.6	21665.1	20580.6	19207.5	18354.5
15°	21706.0	21202.0	19495.0	16578.7	15324.0
17.5°	21413.0	20699.0	17720.2	13894.8	12774.9
20°	21067.3	20137.9	15460.7	11821.7	10730.8
22.5°	20681.8	19455.1	13266.0	9825.0	8268.8
25°	20267.2	18564.6	11529.8	7253.3	5098.3
27.5°	19787.9	17419.7	9901.5	4272.3	2601.9
30°	19280.7	16041.2	8007.1	2298.2	1579.9
32.5°	18769.1	14478.5	5665.8	1435.6	896.0
35°	18194.1	12826.5	3360.1	790.5	384.5
37.5°	17594.1	11312.3	1985.9	359.8	246.6
40°	16925.4	9928.5	1276.2	239.0	242.3
42.5°	16279.3	8638.3	718.4	235.8	240.2
45°	15553.3	7226.3	330.6	239.0	238.0
47.5°	14802.7	5762.7	214.3	241.2	241.2
50°	14028.4	4120.5	213.2	246.6	240.2
52.5°	13211.0	2570.7	221.9	245.6	197.1
55°	12337.6	1488.3	226.1	204.6	91.6
57.5°	11432.9	877.7	228.3	117.4	51.7
60°	10489.5	485.7	219.7	87.2	48.5
62.5°	9517.0	231.5	173.4	81.9	47.3
65°	8501.4	157.2	118.4	75.3	48.5
67.5°	7447.1	121.7	93.7	71.1	49.5
70°	6391.7	90.4	85.1	71.1	48.5
72.5°	5319.1	61.4	71.1	72.1	48.5
75°	4231.3	36.6	48.5	63.6	50.6
77.5°	3153.3	22.6	37.7	65.7	61.4
80°	2122.6	19.4	39.9	61.4	48.5
82.5°	1246.1	17.3	38.8	47.3	38.8
85°	527.7	14.0	25.8	38.8	32.3
87.5°	99.1	11.9	20.5	31.2	28.0
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)