

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: P730670

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CLI-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22263.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

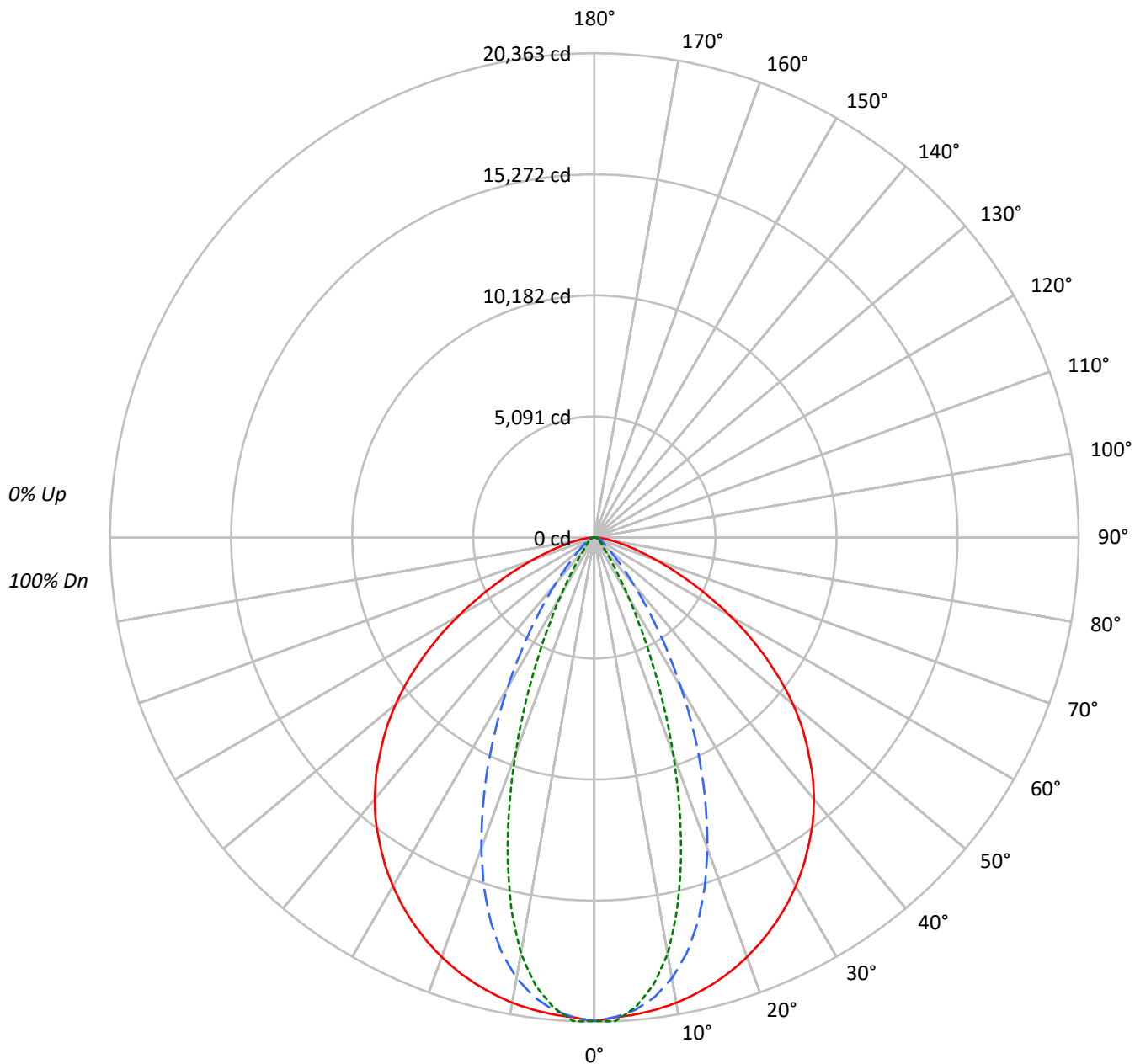
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32834	32834	32834
5°	32636	32312	32142
10°	32582	30848	29110
15°	32450	28041	23509
20°	32256	23860	16662
25°	31967	18814	10067
30°	31579	13579	5174
35°	31009	8877	2584
40°	30273	5332	1508
45°	29016	3184	1128
50°	27367	2082	947
55°	24769	1580	826
60°	21285	1345	754
65°	17121	1228	712
70°	12898	1315	708
75°	9488	1250	728
80°	6941	1244	797
85°	5200	1510	1032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1872.8	8.4
10°-20°	4659.1	20.9
20°-30°	5160.7	23.2
30°-40°	4134.6	18.6
40°-50°	2951.6	13.3
50°-60°	1895.8	8.5
60°-70°	1027.4	4.6
70°-80°	439.1	2.0
80°-90°	121.8	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°	11692.6	52.5
0°-40°	15827.2	71.1
0°-60°	20674.6	92.9
0°-90°	22263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20336	20336	20336	20336	20336	
5°	20136	20211	19936	19873	19831	###
15°	19413	18806	16775	14825	14064	5477
25°	17944	15822	10561	6881	5651	8266
35°	15732	11379	4504	1816	1311	9836
45°	12707	6569	1395	593	494	9795
55°	8799	2937	561	345	294	7842
65°	4481	1206	321	222	186	4488
75°	1521	441	200	139	117	1690
85°	281	117	82	68	56	343
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20335.6	20335.6	20335.6	20335.6	20335.6
2.5°	20201.8	20328.2	20192.1	20276.7	20363.4
5°	20136.4	20211.4	19936.1	19872.9	19831.2
7.5°	20022.8	20001.4	19484.2	19148.9	18987.1
10°	19872.9	19699.4	18815.7	18078.9	17755.4
12.5°	19658.7	19301.0	17910.7	16616.8	16068.4
15°	19413.4	18806.1	16775.3	14824.9	14064.4
17.5°	19119.9	18227.7	15418.2	12903.4	11899.8
20°	18772.9	17529.4	13886.7	10861.9	9697.6
22.5°	18385.2	16723.9	12246.8	8826.8	7578.0
25°	17943.9	15822.0	10561.0	6880.7	5651.0
27.5°	17467.3	14820.7	8884.7	5141.2	4019.7
30°	16938.1	13736.7	7283.4	3707.1	2775.2
32.5°	16360.8	12584.2	5795.7	2607.0	1898.0
35°	15732.1	11379.3	4503.9	1816.5	1311.0
37.5°	15088.4	10149.6	3401.8	1284.2	940.4
40°	14363.2	8924.2	2529.9	940.4	715.4
42.5°	13584.6	7722.5	1872.3	724.0	579.4
45°	12707.4	6568.9	1394.6	593.4	493.8
47.5°	11857.0	5493.6	1059.3	505.5	429.5
50°	10895.1	4523.2	829.0	441.3	377.0
52.5°	9874.4	3669.6	672.6	388.8	332.0
55°	8799.0	2936.9	561.2	344.9	293.5
57.5°	7709.7	2326.3	479.8	307.4	261.4
60°	6591.5	1860.5	416.6	275.2	233.4
62.5°	5500.1	1487.8	364.1	247.4	208.9
65°	4481.4	1206.0	321.3	221.7	186.4
67.5°	3539.9	953.3	299.9	199.2	168.2
70°	2732.3	742.2	278.5	177.8	150.0
72.5°	2070.4	569.9	246.4	158.5	132.8
75°	1520.9	441.3	200.3	139.3	116.7
77.5°	1088.3	339.6	162.8	121.0	100.7
80°	746.5	252.8	133.8	103.9	85.7
82.5°	485.3	178.9	108.2	85.7	70.6
85°	280.7	116.7	81.5	67.5	55.7
87.5°	121.0	64.2	55.7	50.4	42.8
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)