

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: P730678

Luminaire Tested: **HBLED-LD5-24HE-N-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730678
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-L750
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25388.0 lumens
Efficiency: N/A
Efficacy: 177.5 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

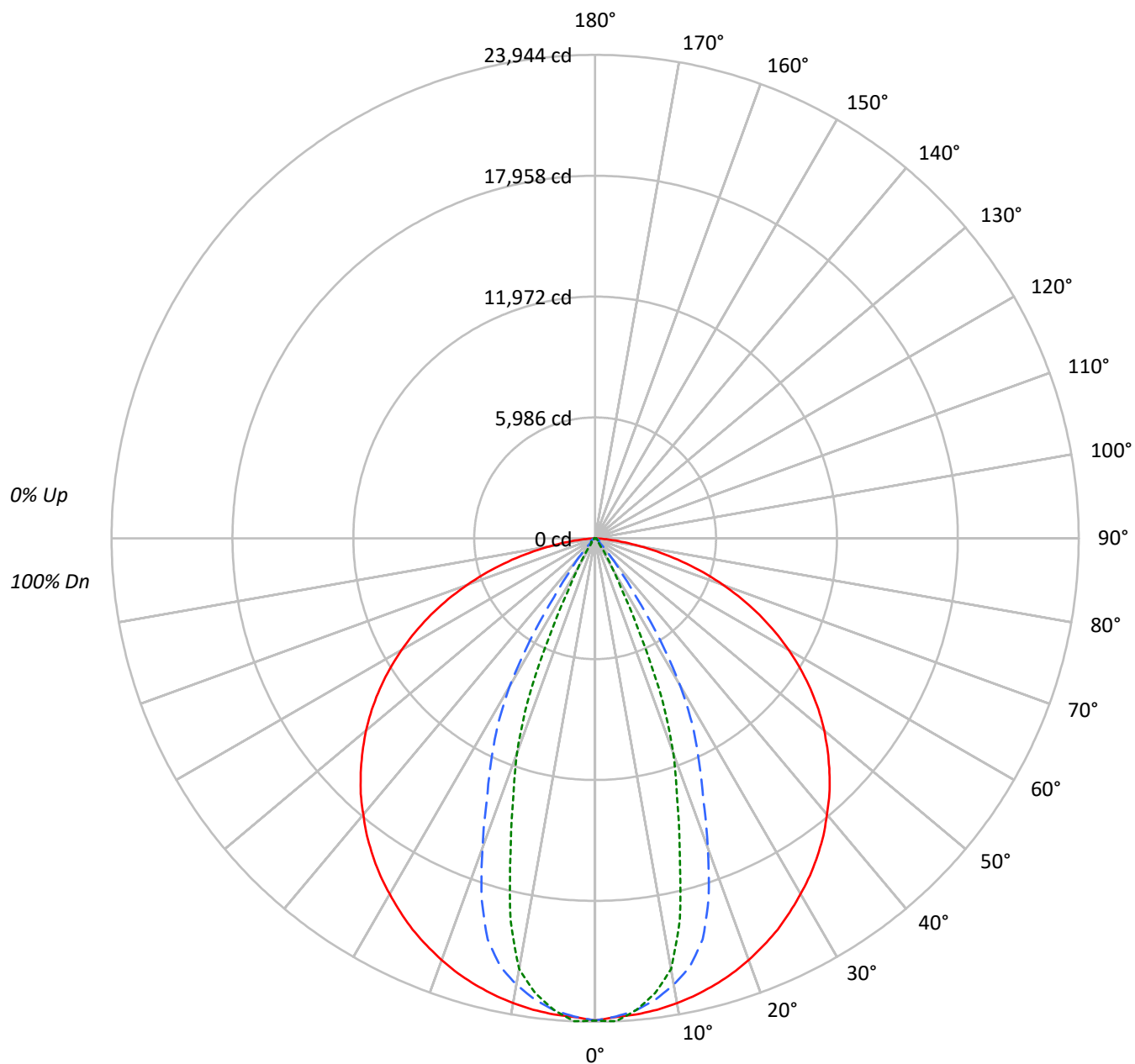
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730678

CATALOG NUMBER: HBLED-LD5-24HE-N-UNV-L750

Luminous Intensity Polar Plot



TEST NUMBER: P730678

CATALOG NUMBER: HBLED-LD5-24HE-N-UNV-L750

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90						
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81						
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73						
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66						
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60						
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55						
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51						
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47						
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44						
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38566	38566	38566
5°	38360	38021	38005
10°	38336	36803	35512
15°	38282	34382	27026
20°	38193	28029	19454
25°	38096	21672	9583
30°	37927	15751	3108
35°	37838	6988	800
40°	37639	2838	539
45°	37471	796	573
50°	37179	565	637
55°	36644	672	272
60°	35739	749	165
65°	34269	478	196
70°	31836	424	242
75°	27851	319	333
80°	20824	391	476
85°	10315	504	630



TEST NUMBER: P730678

CATALOG NUMBER: HBLED-LD5-24HE-N-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2216.7	8.7
10°-20°	5542.8	21.8
20°-30°	6003.7	23.6
30°-40°	4446.0	17.5
40°-50°	3202.3	12.6
50°-60°	1982.8	7.8
60°-70°	1219.4	4.8
70°-80°	642.8	2.5
80°-90°	131.6	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°	13763.1	54.2
0°-40°	18209.1	71.7
0°-60°	23394.2	92.1
0°-90°	25388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23886	23886	23886	23886	23886	
5°	23668	23756	23459	23476	23449	###
15°	22902	22370	20569	17492	16168	6465
25°	21384	19588	12165	7653	5379	9853
35°	19197	13533	3545	834	406	12010
45°	16410	7624	349	252	251	12656
55°	13018	1570	239	216	97	11621
65°	8970	166	125	80	51	8850
75°	4464	39	51	67	53	4715
85°	557	15	27	41	34	841
90°	0	0	0	0	0	



TEST NUMBER: P730678

CATALOG NUMBER: HBLED-LD5-24HE-N-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23886.2	23886.2	23886.2	23886.2	23886.2
2.5°	23732.8	23884.0	23705.6	23838.5	23944.1
5°	23668.0	23755.5	23458.9	23476.0	23448.7
7.5°	23554.4	23533.9	23035.1	22816.9	22721.5
10°	23382.8	23247.6	22447.7	21992.0	21660.2
12.5°	23161.3	22859.0	21714.8	20265.9	19366.0
15°	22902.1	22370.4	20569.3	17492.3	16168.4
17.5°	22593.1	21839.7	18696.7	14660.5	13478.9
20°	22228.3	21247.7	16312.7	12473.2	11322.2
22.5°	21821.5	20527.3	13997.0	10366.5	8724.5
25°	21384.0	19587.6	12165.2	7653.0	5379.2
27.5°	20878.4	18379.7	10447.2	4507.7	2745.3
30°	20343.2	16925.2	8448.4	2424.8	1667.0
32.5°	19803.5	15276.4	5978.1	1514.7	945.4
35°	19196.7	13533.3	3545.2	834.0	405.7
37.5°	18563.7	11935.7	2095.3	379.6	260.2
40°	17858.1	10475.6	1346.5	252.2	255.6
42.5°	17176.4	9114.3	758.0	248.8	253.4
45°	16410.4	7624.5	348.8	252.2	251.1
47.5°	15618.4	6080.3	226.1	254.5	254.5
50°	14801.5	4347.5	225.0	260.2	253.4
52.5°	13939.0	2712.4	234.1	259.1	208.0
55°	13017.5	1570.4	238.6	215.9	96.6
57.5°	12063.0	926.1	240.9	123.9	54.6
60°	11067.5	512.4	231.8	92.0	51.2
62.5°	10041.5	244.3	182.9	86.4	50.0
65°	8969.9	165.9	125.0	79.5	51.2
67.5°	7857.5	128.4	98.8	75.0	52.3
70°	6743.9	95.4	89.8	75.0	51.2
72.5°	5612.2	64.8	75.0	76.1	51.2
75°	4464.5	38.6	51.2	67.1	53.4
77.5°	3327.1	23.8	39.7	69.3	64.8
80°	2239.6	20.4	42.1	64.8	51.2
82.5°	1314.7	18.2	41.0	50.0	41.0
85°	556.8	14.8	27.2	41.0	34.0
87.5°	104.5	12.5	21.6	32.9	29.5
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)