

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: P730672

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730672
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-L750
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: 23490.0 lumens
Efficiency: N/A
Efficacy: 164.3 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

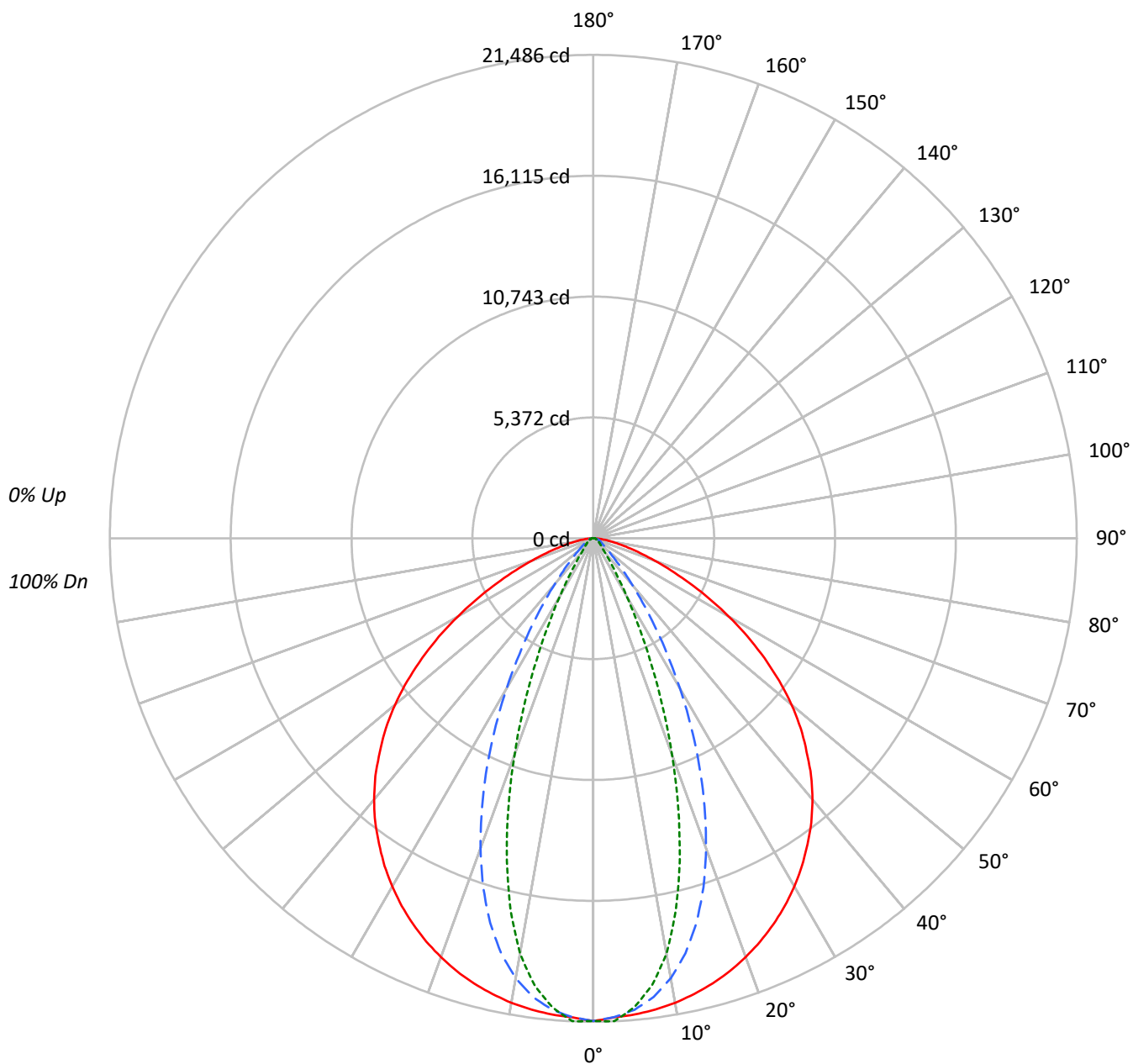
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34643	34643	34643
5°	34435	34092	33913
10°	34377	32548	30714
15°	34239	29586	24805
20°	34034	25175	17581
25°	33729	19851	10622
30°	33319	14327	5459
35°	32718	9367	2726
40°	31942	5626	1591
45°	30615	3360	1190
50°	28875	2197	999
55°	26134	1667	872
60°	22458	1420	795
65°	18065	1295	751
70°	13609	1387	747
75°	10011	1319	769
80°	7324	1313	841
85°	5485	1591	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1976.0	8.4
10°-20°	4915.9	20.9
20°-30°	5445.1	23.2
30°-40°	4362.5	18.6
40°-50°	3114.3	13.3
50°-60°	2000.3	8.5
60°-70°	1084.0	4.6
70°-80°	463.4	2.0
80°-90°	128.5	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°	12337.0	52.5
0°-40°	16699.5	71.1
0°-60°	21814.1	92.9
0°-90°	23490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21456	21456	21456	21456	21456	
5°	21246	21325	21035	20968	20924	###
15°	20483	19843	17700	15642	14840	5779
25°	18933	16694	11143	7260	5962	8722
35°	16599	12006	4752	1917	1383	10379
45°	13408	6931	1472	626	521	10334
55°	9284	3099	592	364	310	8274
65°	4728	1272	339	234	197	4735
75°	1605	466	211	147	123	1783
85°	296	123	86	71	59	362
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21456.4	21456.4	21456.4	21456.4	21456.4
2.5°	21315.1	21448.5	21304.9	21394.2	21485.7
5°	21246.2	21325.4	21034.8	20968.1	20924.2
7.5°	21126.4	21103.8	20558.0	20204.2	20033.5
10°	20968.1	20785.1	19852.7	19075.3	18734.0
12.5°	20742.2	20364.7	18897.8	17532.6	16954.0
15°	20483.4	19842.6	17699.9	15642.0	14839.6
17.5°	20173.7	19232.3	16268.0	13614.6	12555.6
20°	19807.6	18495.5	14652.0	11460.5	10232.1
22.5°	19398.5	17645.7	12921.8	9313.3	7995.6
25°	18932.9	16694.1	11143.0	7259.9	5962.5
27.5°	18430.0	15637.5	9374.4	5424.6	4241.3
30°	17871.7	14493.8	7684.8	3911.4	2928.2
32.5°	17262.5	13277.8	6115.1	2750.7	2002.6
35°	16599.2	12006.4	4752.1	1916.6	1383.2
37.5°	15919.9	10709.0	3589.2	1355.0	992.3
40°	15154.8	9416.1	2669.4	992.3	754.9
42.5°	14333.3	8148.2	1975.5	763.9	611.4
45°	13407.7	6931.0	1471.5	626.1	521.0
47.5°	12510.4	5796.4	1117.7	533.4	453.2
50°	11495.6	4772.5	874.7	465.6	397.8
52.5°	10418.6	3871.8	709.7	410.2	350.3
55°	9283.9	3098.8	592.1	363.9	309.7
57.5°	8134.6	2454.6	506.3	324.3	275.8
60°	6954.7	1963.0	439.6	290.4	246.3
62.5°	5803.2	1569.8	384.2	261.1	220.4
65°	4728.4	1272.5	339.0	233.9	196.6
67.5°	3735.0	1005.8	316.4	210.2	177.5
70°	2882.9	783.2	293.9	187.6	158.2
72.5°	2184.5	601.3	260.0	167.3	140.2
75°	1604.7	465.6	211.4	146.9	123.2
77.5°	1148.2	358.3	171.8	127.7	106.3
80°	787.7	266.8	141.2	109.6	90.5
82.5°	512.0	188.8	114.1	90.5	74.5
85°	296.1	123.2	85.9	71.2	58.7
87.5°	127.7	67.8	58.7	53.1	45.2
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)