

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: P730732

Luminaire Tested: **HBLED-LD5-24SE-N-CL-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730732
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-LD5-24SE-N-CL-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23639.0 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

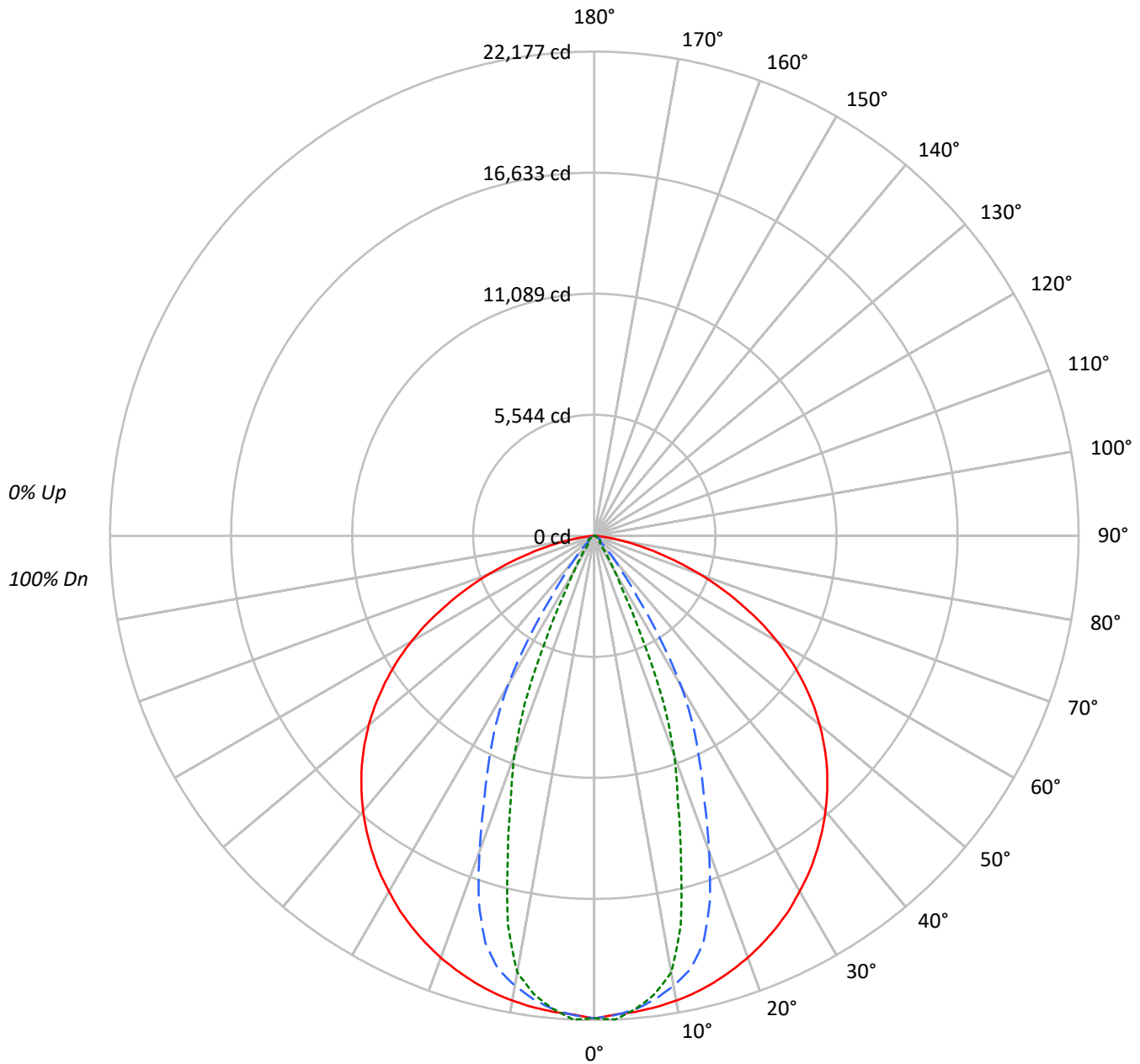
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	35687	35687	35687
5°	35468	35283	35257
10°	35444	34308	33295
15°	35404	32261	25601
20°	35335	26401	18363
25°	35224	20341	9331
30°	35057	14845	3395
35°	34932	6817	1181
40°	34717	3094	815
45°	34408	1154	827
50°	33860	838	869
55°	32857	882	662
60°	31224	942	584
65°	28316	717	475
70°	24278	518	438
75°	18557	459	417
80°	11610	431	453
85°	3668	504	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2057.8	8.7
10°-20°	5183.7	21.9
20°-30°	5645.3	23.9
30°-40°	4223.0	17.9
40°-50°	3036.4	12.8
50°-60°	1864.8	7.9
60°-70°	1073.1	4.5
70°-80°	478.9	2.0
80°-90°	76.0	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°	12886.8	54.5
0°-40°	17109.8	72.4
0°-60°	22011.1	93.1
0°-90°	23639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22103	22103	22103	22103	22103	
5°	21884	21987	21769	21790	21754	###
15°	21180	20774	19300	16576	15316	5979
25°	19772	18354	11418	7326	5238	9114
35°	17722	12711	3459	1017	599	11086
45°	15069	7142	506	374	362	11609
55°	11672	1484	313	303	235	10407
65°	7412	163	188	156	124	7337
75°	2975	98	74	76	67	3228
85°	198	19	27	35	33	394
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22103.0	22103.0	22103.0	22103.0	22103.0
2.5°	21949.3	22092.9	21971.9	22080.4	22176.6
5°	21883.7	21986.6	21769.4	21789.7	21753.6
7.5°	21770.5	21795.4	21403.0	21251.4	21177.9
10°	21619.0	21552.3	20925.7	20564.9	20308.1
12.5°	21427.9	21207.3	20331.8	19043.6	18275.6
15°	21180.2	20774.1	19300.3	16575.7	15315.6
17.5°	20885.0	20321.7	17592.4	13814.7	12724.4
20°	20564.9	19821.7	15365.3	11746.1	10687.3
22.5°	20187.1	19182.7	13168.8	9768.9	8315.6
25°	19772.0	18353.7	11418.0	7325.9	5238.0
27.5°	19324.1	17259.9	9797.2	4492.5	2832.2
30°	18803.8	15928.7	7962.6	2521.2	1821.0
32.5°	18295.9	14376.9	5688.1	1679.6	1163.8
35°	17722.5	12710.8	3458.8	1016.8	599.4
37.5°	17115.1	11196.3	2164.9	553.1	413.9
40°	16471.6	9759.8	1468.1	392.5	386.9
42.5°	15783.8	8460.3	919.5	373.2	385.7
45°	15069.1	7141.5	505.6	374.4	362.0
47.5°	14293.2	5709.6	352.9	354.0	352.9
50°	13480.0	4095.5	333.7	349.5	346.1
52.5°	12603.4	2542.6	334.8	341.6	306.5
55°	11672.5	1483.9	313.3	303.2	235.3
57.5°	10694.1	925.2	306.5	250.0	211.5
60°	9669.4	488.7	291.8	225.1	180.9
62.5°	8577.9	241.0	234.1	192.3	148.2
65°	7411.8	162.9	187.8	156.1	124.4
67.5°	6285.3	147.0	141.4	127.8	108.6
70°	5142.9	134.6	109.7	112.0	92.8
72.5°	4022.1	122.1	88.2	96.1	78.0
75°	2974.7	98.4	73.6	75.7	66.8
77.5°	2069.8	76.9	57.7	64.5	62.2
80°	1248.7	48.7	46.4	53.1	48.7
82.5°	605.1	31.6	36.2	41.8	38.4
85°	198.0	19.2	27.2	35.0	32.8
87.5°	24.9	11.3	22.6	30.6	28.3
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)