

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: P730750

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730750
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-LD5-24SE-N-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25237.0 lumens
Efficiency: N/A
Efficacy: 168.2 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

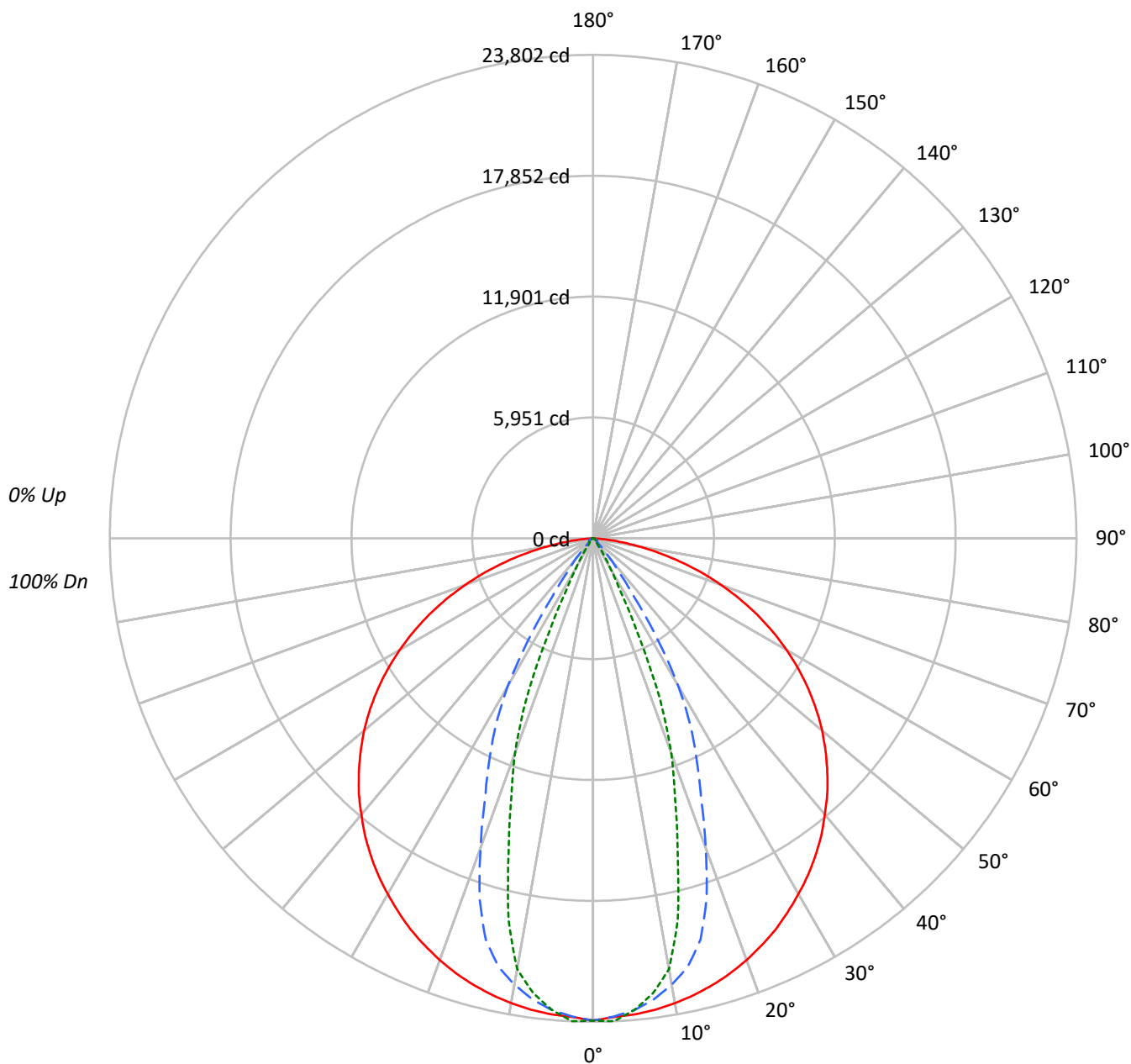
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38337	38337	38337
5°	38132	37795	37779
10°	38108	36584	35301
15°	38054	34178	26866
20°	37966	27862	19338
25°	37869	21544	9526
30°	37702	15657	3089
35°	37613	6946	795
40°	37416	2821	536
45°	37248	792	570
50°	36958	562	633
55°	36426	668	270
60°	35526	744	164
65°	34065	474	194
70°	31647	422	240
75°	27685	318	331
80°	20700	389	473
85°	10254	502	626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2203.5	8.7
10°-20°	5509.8	21.8
20°-30°	5968.0	23.6
30°-40°	4419.5	17.5
40°-50°	3183.2	12.6
50°-60°	1971.0	7.8
60°-70°	1212.1	4.8
70°-80°	639.0	2.5
80°-90°	130.8	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°	13681.3	54.2
0°-40°	18100.8	71.7
0°-60°	23255.0	92.1
0°-90°	25237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23744	23744	23744	23744	23744	
5°	23527	23614	23319	23336	23309	###
15°	22766	22237	20447	17388	16072	6427
25°	21257	19471	12093	7608	5347	9795
35°	19082	13453	3524	829	403	11938
45°	16313	7579	347	251	250	12581
55°	12940	1561	237	215	96	11552
65°	8917	165	124	79	51	8798
75°	4438	38	51	67	53	4687
85°	554	15	27	41	34	836
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23744.1	23744.1	23744.1	23744.1	23744.1
2.5°	23591.6	23741.9	23564.6	23696.7	23801.7
5°	23527.2	23614.2	23319.4	23336.3	23309.3
7.5°	23414.3	23394.0	22898.1	22681.2	22586.4
10°	23243.8	23109.3	22314.2	21861.2	21531.4
12.5°	23023.5	22723.0	21585.6	20145.4	19250.8
15°	22765.9	22237.3	20447.0	17388.2	16072.3
17.5°	22458.7	21709.8	18585.5	14573.3	13398.7
20°	22096.1	21121.3	16215.7	12399.0	11254.8
22.5°	21691.7	20405.2	13913.8	10304.8	8672.6
25°	21256.9	19471.1	12092.9	7607.5	5347.2
27.5°	20754.2	18270.4	10385.0	4480.9	2729.0
30°	20222.3	16824.5	8398.1	2410.4	1657.1
32.5°	19685.7	15185.5	5942.5	1505.7	939.8
35°	19082.5	13452.8	3524.1	829.1	403.3
37.5°	18453.3	11864.7	2082.9	377.3	258.7
40°	17751.9	10413.3	1338.5	250.7	254.1
42.5°	17074.2	9060.1	753.4	247.3	251.9
45°	16312.8	7579.2	346.8	250.7	249.6
47.5°	15525.5	6044.1	224.7	253.0	253.0
50°	14713.5	4321.7	223.6	258.7	251.9
52.5°	13856.1	2696.3	232.7	257.6	206.7
55°	12940.1	1561.0	237.2	214.6	96.0
57.5°	11991.2	920.5	239.5	123.1	54.2
60°	11001.7	509.4	230.4	91.5	50.9
62.5°	9981.7	242.9	181.8	85.9	49.7
65°	8916.6	164.9	124.2	79.0	50.9
67.5°	7810.8	127.6	98.2	74.5	52.0
70°	6703.8	94.8	89.3	74.5	50.9
72.5°	5578.8	64.4	74.5	75.6	50.9
75°	4437.9	38.4	50.9	66.7	53.0
77.5°	3307.3	23.7	39.5	68.9	64.4
80°	2226.3	20.3	41.8	64.4	50.9
82.5°	1306.9	18.1	40.7	49.7	40.7
85°	553.5	14.7	27.1	40.7	33.8
87.5°	103.9	12.4	21.5	32.7	29.4
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)