

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: P731098

Luminaire Tested: **HBLED-LD5-48SE-N-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731098
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-LD5-48SE-N-UNV-L750
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48839.0 lumens
Efficiency: N/A
Efficacy: 171.1 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

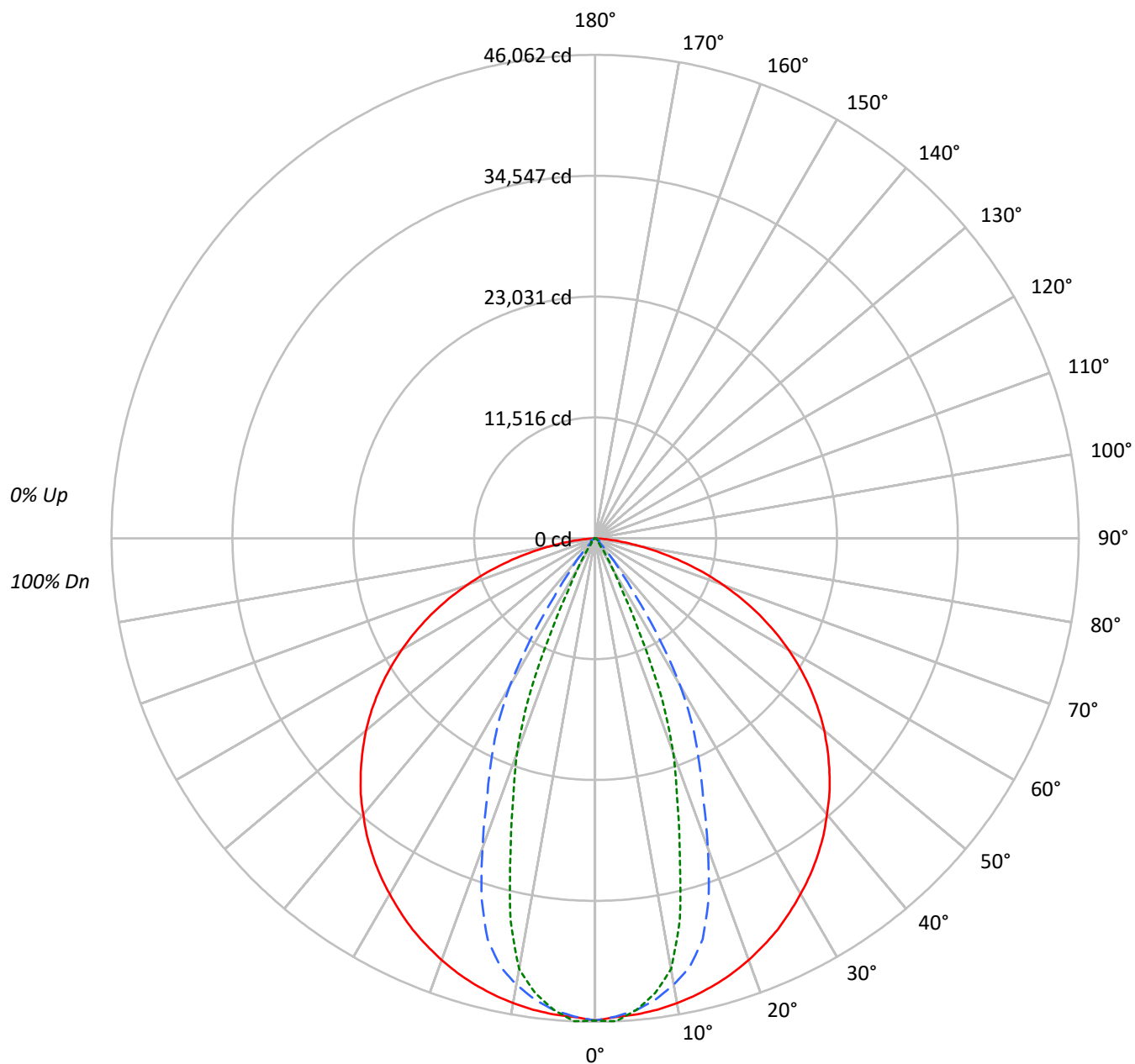
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	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°	74190	74190	74190
5°	73793	73142	73110
10°	73747	70798	68314
15°	73643	66142	51991
20°	73472	53919	37423
25°	73285	41691	18435
30°	72961	30300	5979
35°	72788	13443	1538
40°	72407	5459	1036
45°	72083	1532	1103
50°	71522	1087	1225
55°	70491	1292	523
60°	68751	1440	318
65°	65924	918	376
70°	61244	816	465
75°	53576	614	641
80°	40059	752	915
85°	19842	971	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4264.2	8.7
10°-20°	10662.7	21.8
20°-30°	11549.3	23.6
30°-40°	8552.8	17.5
40°-50°	6160.2	12.6
50°-60°	3814.3	7.8
60°-70°	2345.8	4.8
70°-80°	1236.6	2.5
80°-90°	253.1	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°	26476.2	54.2
0°-40°	35029.0	71.7
0°-60°	45003.5	92.1
0°-90°	48839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	45950	45950	45950	45950	45950	
5°	45530	45699	45128	45161	45108	###
15°	44057	43034	39569	33650	31103	12437
25°	41137	37681	23402	14722	10348	18955
35°	36929	26034	6820	1604	780	23103
45°	31569	14667	671	485	483	24346
55°	25042	3021	459	415	186	22355
65°	17256	319	240	153	98	17025
75°	8588	74	98	129	103	9071
85°	1071	28	52	79	66	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	45949.9	45949.9	45949.9	45949.9	45949.9
2.5°	45654.8	45945.7	45602.5	45858.3	46061.5
5°	45530.2	45698.6	45128.1	45160.8	45108.4
7.5°	45311.6	45272.3	44312.7	43893.0	43709.5
10°	44981.7	44721.5	43182.7	42306.1	41667.8
12.5°	44555.4	43973.9	41772.8	38985.7	37254.5
15°	44056.9	43034.0	39569.3	33650.0	31103.3
17.5°	43462.4	42013.1	35966.9	28202.5	25929.3
20°	42760.7	40874.2	31380.8	23994.7	21780.5
22.5°	41978.1	39488.4	26926.1	19942.0	16783.4
25°	41136.6	37680.7	23402.3	14722.0	10348.0
27.5°	40163.9	35357.1	20097.3	8671.6	5281.2
30°	39134.4	32559.0	16252.2	4664.7	3206.8
32.5°	38096.0	29387.3	11500.0	2913.8	1818.6
35°	36928.8	26034.1	6820.0	1604.5	780.5
37.5°	35711.1	22960.8	4030.8	730.2	500.6
40°	34353.8	20152.0	2590.2	485.2	491.7
42.5°	33042.3	17533.2	1458.1	478.6	487.5
45°	31568.8	14667.3	671.1	485.2	483.1
47.5°	30045.2	11696.7	434.9	489.6	489.6
50°	28473.7	8363.4	432.8	500.6	487.5
52.5°	26814.6	5217.8	450.3	498.5	400.1
55°	25041.8	3020.9	459.0	415.3	185.9
57.5°	23205.6	1781.5	463.4	238.3	105.0
60°	21290.7	985.8	445.9	177.0	98.4
62.5°	19316.8	470.0	351.9	166.2	96.1
65°	17255.5	319.2	240.4	152.9	98.4
67.5°	15115.6	246.9	190.1	144.3	100.5
70°	12973.3	183.6	172.8	144.3	98.4
72.5°	10796.3	124.6	144.3	146.4	98.4
75°	8588.3	74.4	98.4	129.1	102.7
77.5°	6400.3	45.8	76.5	133.3	124.6
80°	4308.3	39.3	80.9	124.6	98.4
82.5°	2529.2	35.1	78.8	96.1	78.8
85°	1071.1	28.5	52.4	78.8	65.5
87.5°	201.1	24.1	41.6	63.4	56.8
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)