

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: P731121

Luminaire Tested: **HBLED-LD5-48SE-W-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-UNV-L740
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49524.0 lumens
Efficiency: N/A
Efficacy: 173.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

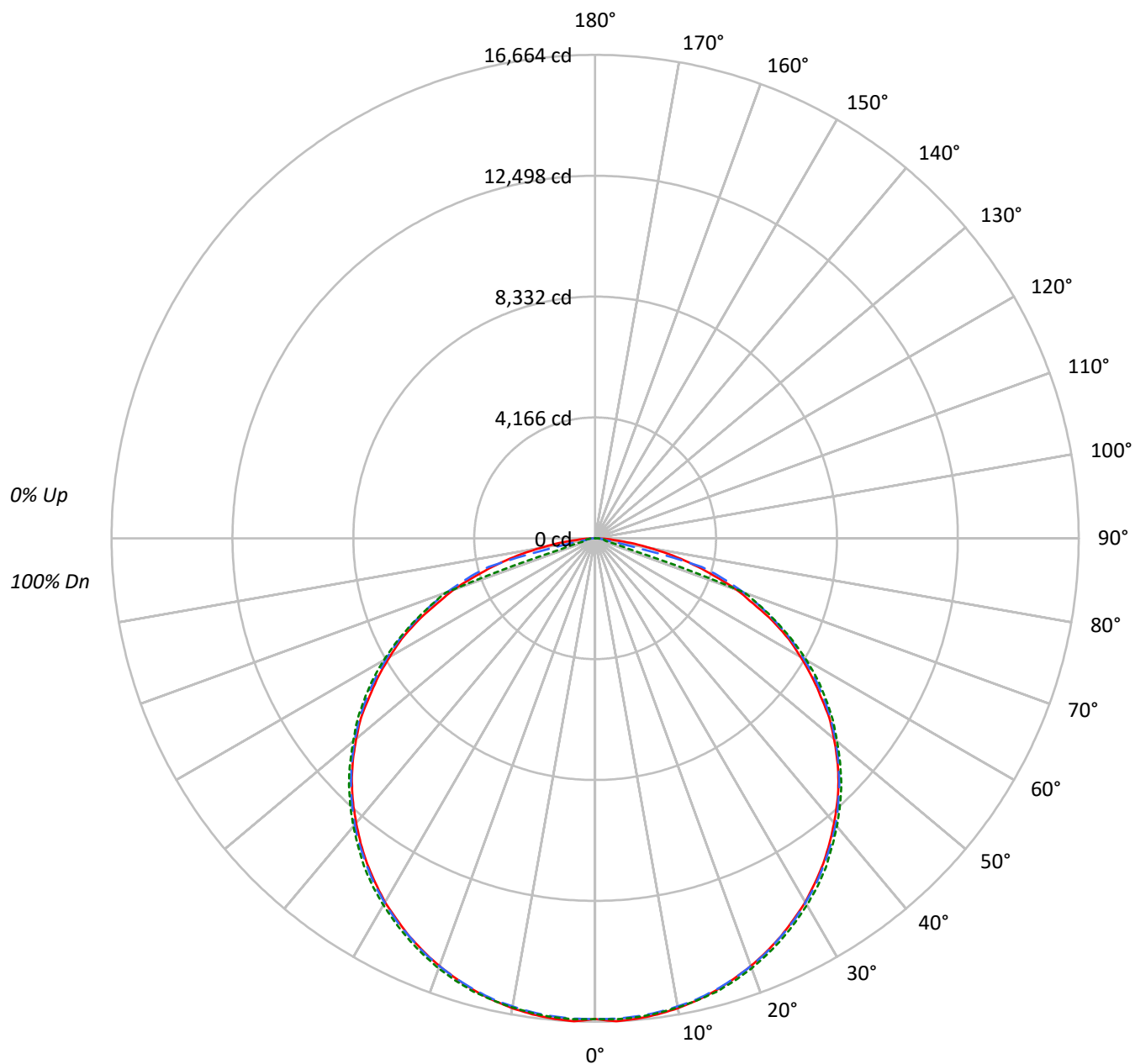
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26757	26757	26757
5°	26949	26811	26859
10°	26964	26867	26922
15°	26960	26924	27047
20°	26958	26965	27104
25°	26972	26985	27149
30°	27001	27035	27214
35°	26996	27083	27309
40°	27000	27171	27319
45°	27076	27177	27396
50°	26994	27152	27328
55°	26697	27071	27362
60°	26394	26823	27156
65°	25811	26346	26544
70°	24503	25549	25863
75°	21855	23698	2856
80°	17575	2952	3123
85°	11695	3829	3898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1574.0	3.2
10°-20°	4548.1	9.2
20°-30°	6987.8	14.1
30°-40°	8602.2	17.4
40°-50°	9170.9	18.5
50°-60°	8572.9	17.3
60°-70°	6786.5	13.7
70°-80°	2887.4	5.8
80°-90°	394.3	0.8
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°	13109.9	26.5
0°-40°	21712.1	43.8
0°-60°	39455.8	79.7
0°-90°	49524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16572	16572	16572	16572	16572	
5°	16628	16554	16543	16476	16572	###
15°	16129	16100	16107	16063	16181	4554
25°	15140	15121	15147	15140	15239	6980
35°	13696	13674	13741	13789	13855	8570
45°	11858	11791	11902	11950	11998	9137
55°	9484	9514	9617	9650	9720	8493
65°	6756	6815	6896	6948	6948	6646
75°	3503	3655	3799	620	458	3706
85°	631	188	207	214	210	823
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16572.1	16572.1	16572.1	16572.1	16572.1
2.5°	16664.4	16586.9	16572.1	16505.7	16594.3
5°	16627.5	16553.7	16542.6	16476.2	16572.1
7.5°	16550.0	16490.9	16483.5	16413.4	16509.4
10°	16446.6	16391.3	16387.6	16324.8	16420.8
12.5°	16306.3	16258.3	16273.1	16210.4	16306.3
15°	16129.1	16099.6	16107.0	16062.7	16180.8
17.5°	15915.0	15900.3	15915.0	15881.8	15988.9
20°	15689.8	15671.4	15693.5	15675.1	15774.7
22.5°	15427.7	15405.6	15449.9	15424.0	15516.3
25°	15139.8	15121.3	15147.1	15139.8	15239.4
27.5°	14811.2	14792.7	14848.1	14851.8	14929.3
30°	14482.6	14456.8	14501.1	14519.5	14597.1
32.5°	14091.3	14083.9	14150.4	14165.1	14246.4
35°	13696.3	13674.1	13740.6	13788.6	13855.0
37.5°	13264.4	13260.7	13330.8	13371.4	13404.6
40°	12810.3	12791.8	12891.5	12932.1	12961.6
42.5°	12348.8	12308.2	12404.2	12455.9	12489.1
45°	11857.8	11791.4	11902.1	11950.1	11998.1
47.5°	11318.8	11259.8	11366.8	11418.5	11451.7
50°	10746.6	10691.2	10809.4	10853.7	10879.5
52.5°	10170.7	10115.3	10240.8	10277.8	10340.5
55°	9484.0	9513.6	9616.9	9650.2	9720.3
57.5°	8849.1	8874.9	8974.6	9015.2	9096.4
60°	8173.5	8214.1	8306.4	8347.0	8409.7
62.5°	7520.0	7523.7	7634.5	7652.9	7700.9
65°	6755.9	6814.9	6896.1	6947.8	6947.8
67.5°	5903.1	6047.0	6187.3	6176.3	6205.8
70°	5190.6	5245.9	5412.1	5437.9	5478.5
72.5°	4297.2	4441.1	4625.7	3455.5	1174.0
75°	3503.4	3654.8	3798.8	620.2	457.8
77.5°	2720.8	2838.9	1262.6	354.4	347.0
80°	1890.2	2078.4	317.5	324.9	335.9
82.5°	1244.1	1015.2	262.1	288.0	291.6
85°	631.3	188.3	206.7	214.1	210.4
87.5°	206.7	114.4	118.1	121.8	125.5
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)