

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: P731086

Luminaire Tested: **HBLED-LD5-48HE-W-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731086
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-LD5-48HE-W-UNV-L750
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51310.0 lumens
Efficiency: N/A
Efficacy: 195.1 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

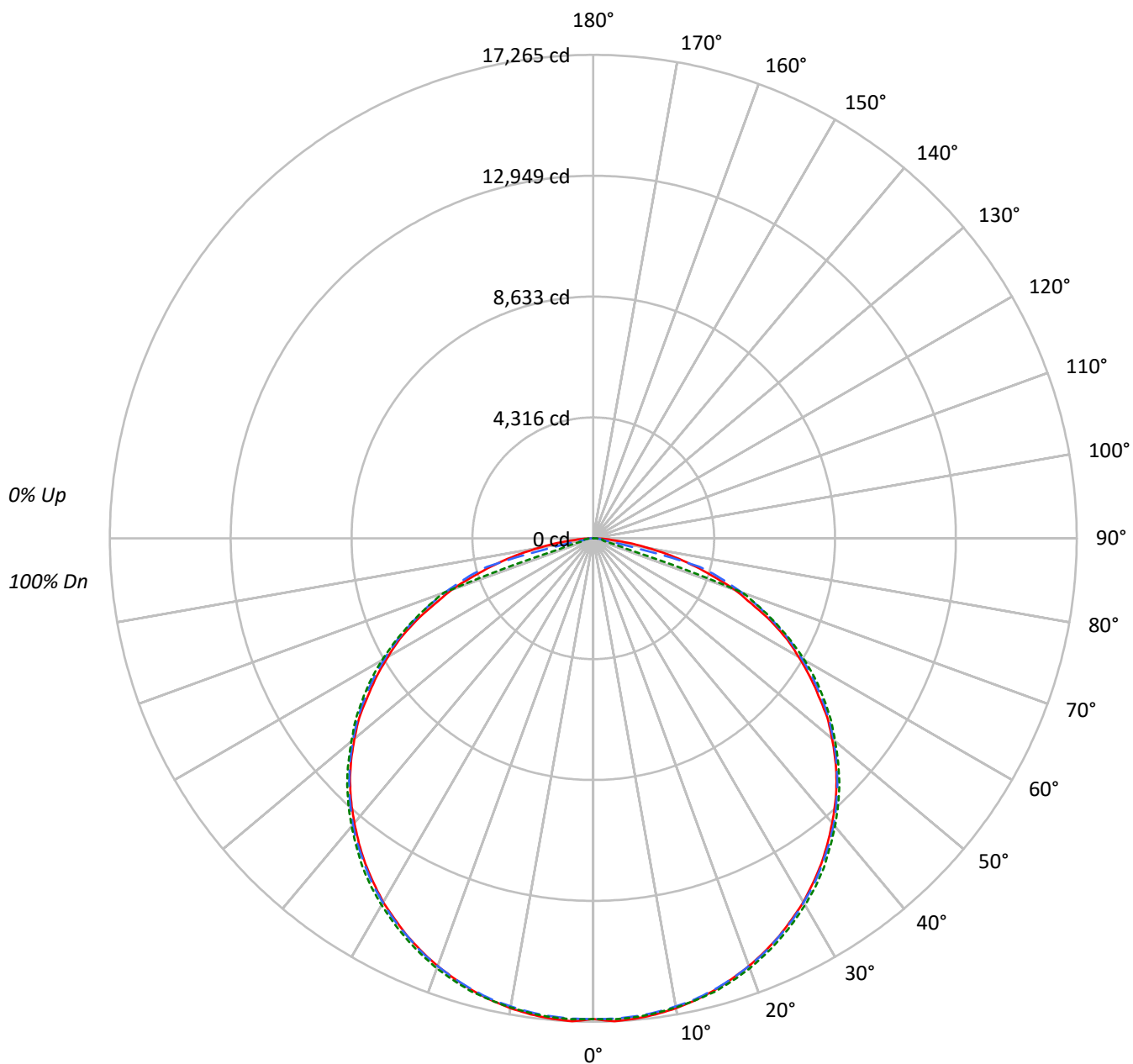
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	27722	27722	27722
5°	27921	27778	27828
10°	27937	27836	27893
15°	27933	27895	28022
20°	27931	27937	28082
25°	27944	27958	28128
30°	27975	28010	28196
35°	27970	28060	28294
40°	27974	28151	28304
45°	28052	28157	28384
50°	27967	28131	28313
55°	27660	28048	28349
60°	27345	27790	28136
65°	26741	27296	27501
70°	25387	26470	26795
75°	22644	24553	2959
80°	18208	3058	3237
85°	12117	3968	4039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1630.8	3.2
10°-20°	4712.1	9.2
20°-30°	7239.8	14.1
30°-40°	8912.4	17.4
40°-50°	9501.6	18.5
50°-60°	8882.1	17.3
60°-70°	7031.3	13.7
70°-80°	2991.5	5.8
80°-90°	408.5	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°	13582.6	26.5
0°-40°	22495.1	43.8
0°-60°	40878.7	79.7
0°-90°	51310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17170	17170	17170	17170	17170	
5°	17227	17151	17139	17070	17170	###
15°	16711	16680	16688	16642	16764	4718
25°	15686	15667	15693	15686	15789	7232
35°	14190	14167	14236	14286	14355	8879
45°	12285	12217	12331	12381	12431	9466
55°	9826	9857	9964	9998	10071	8799
65°	7000	7061	7145	7198	7198	6886
75°	3630	3787	3936	643	474	3840
85°	654	195	214	222	218	853
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17169.8	17169.8	17169.8	17169.8	17169.8
2.5°	17265.4	17185.1	17169.8	17100.9	17192.7
5°	17227.2	17150.7	17139.2	17070.3	17169.8
7.5°	17146.8	17085.6	17078.0	17005.3	17104.8
10°	17039.7	16982.4	16978.6	16913.5	17013.0
12.5°	16894.4	16844.7	16860.0	16795.0	16894.4
15°	16710.8	16680.2	16687.9	16642.0	16764.4
17.5°	16489.0	16473.7	16489.0	16454.5	16565.5
20°	16255.7	16236.5	16259.5	16240.4	16343.6
22.5°	15984.1	15961.1	16007.0	15980.3	16075.9
25°	15685.7	15666.6	15693.4	15685.7	15789.0
27.5°	15345.3	15326.2	15383.6	15387.4	15467.7
30°	15004.9	14978.1	15024.0	15043.2	15123.5
32.5°	14599.5	14591.8	14660.7	14676.0	14760.1
35°	14190.2	14167.3	14236.1	14285.8	14354.7
37.5°	13742.7	13738.9	13811.6	13853.6	13888.1
40°	13272.3	13253.1	13356.4	13398.5	13429.1
42.5°	12794.2	12752.1	12851.5	12905.1	12939.5
45°	12285.4	12216.6	12331.3	12381.1	12430.8
47.5°	11727.0	11665.8	11776.7	11830.3	11864.7
50°	11134.2	11076.8	11199.2	11245.1	11271.9
52.5°	10537.5	10480.1	10610.2	10648.4	10713.4
55°	9826.1	9856.7	9963.8	9998.2	10070.9
57.5°	9168.2	9195.0	9298.2	9340.3	9424.5
60°	8468.2	8510.3	8605.9	8648.0	8713.0
62.5°	7791.2	7795.1	7909.8	7928.9	7978.7
65°	6999.5	7060.7	7144.8	7198.4	7198.4
67.5°	6115.9	6265.1	6410.5	6399.0	6429.6
70°	5377.8	5435.1	5607.2	5634.0	5676.1
72.5°	4452.1	4601.3	4792.5	3580.1	1216.3
75°	3629.8	3786.6	3935.8	642.6	474.3
77.5°	2818.9	2941.3	1308.1	367.2	359.5
80°	1958.3	2153.4	328.9	336.6	348.1
82.5°	1289.0	1051.8	271.6	298.3	302.2
85°	654.1	195.1	214.2	221.8	218.0
87.5°	214.2	118.6	122.4	126.2	130.0
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)