

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: P731125

Luminaire Tested: **HBLED-LD5-48SE-W-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731125
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-L850
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48200.0 lumens
Efficiency: N/A
Efficacy: 168.8 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

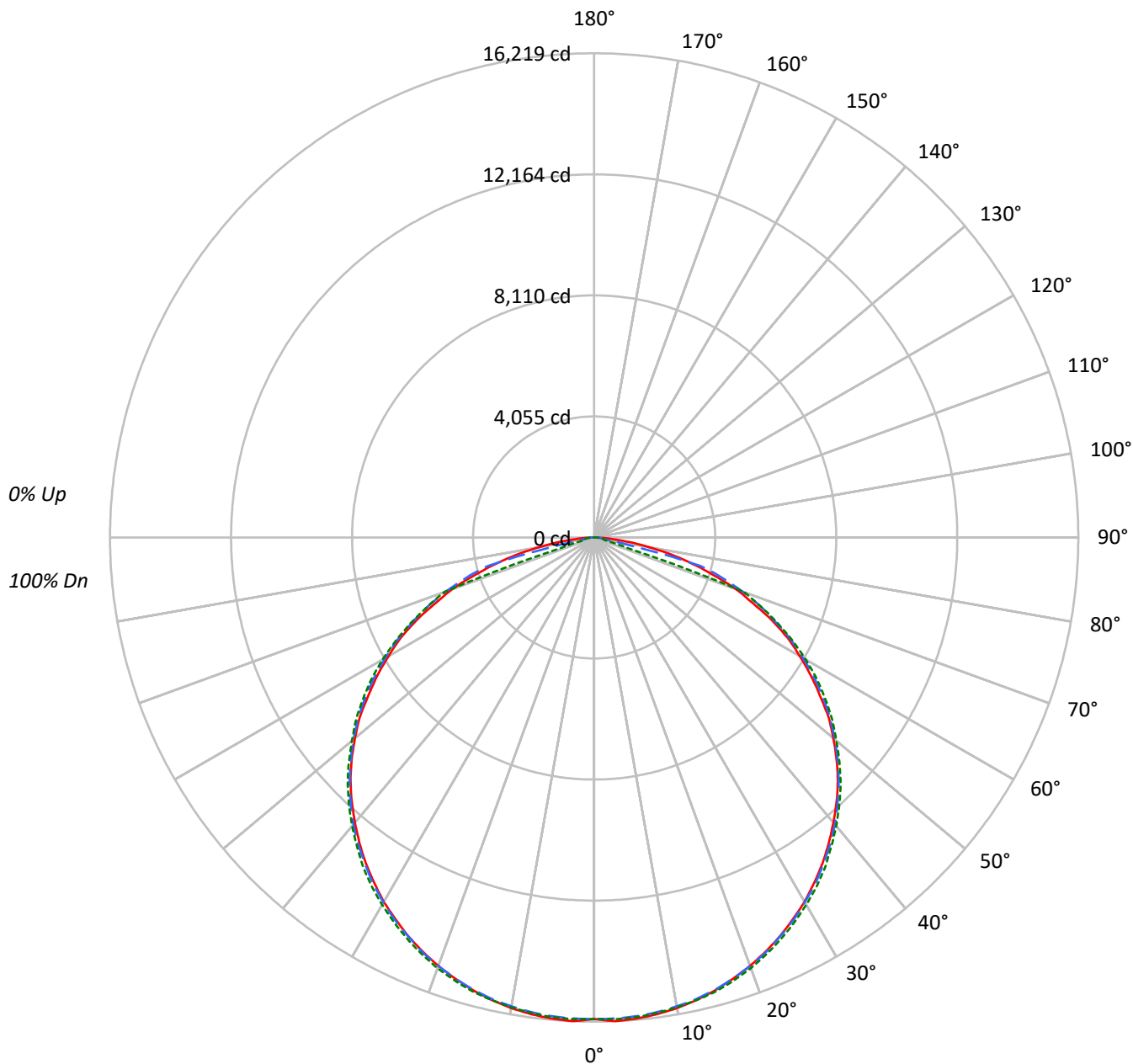
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26042	26042	26042
5°	26229	26095	26141
10°	26243	26149	26202
15°	26240	26204	26324
20°	26238	26244	26380
25°	26250	26263	26423
30°	26279	26313	26487
35°	26274	26359	26579
40°	26278	26445	26589
45°	26352	26450	26664
50°	26272	26426	26597
55°	25983	26347	26631
60°	25688	26106	26430
65°	25120	25642	25834
70°	23848	24866	25171
75°	21271	23064	2779
80°	17105	2873	3040
85°	11382	3727	3794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1531.9	3.2
10°-20°	4426.5	9.2
20°-30°	6801.0	14.1
30°-40°	8372.2	17.4
40°-50°	8925.7	18.5
50°-60°	8343.7	17.3
60°-70°	6605.1	13.7
70°-80°	2810.2	5.8
80°-90°	383.7	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°	12759.4	26.5
0°-40°	21131.6	43.8
0°-60°	38401.0	79.7
0°-90°	48200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16129	16129	16129	16129	16129	
5°	16183	16111	16100	16036	16129	###
15°	15698	15669	15676	15633	15748	4432
25°	14735	14717	14742	14735	14832	6794
35°	13330	13309	13373	13420	13485	8341
45°	11541	11476	11584	11631	11677	8893
55°	9230	9259	9360	9392	9460	8266
65°	6575	6633	6712	6762	6762	6469
75°	3410	3557	3697	604	446	3607
85°	614	183	201	208	205	801
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16129.1	16129.1	16129.1	16129.1	16129.1
2.5°	16218.9	16143.5	16129.1	16064.4	16150.7
5°	16183.0	16111.1	16100.4	16035.7	16129.1
7.5°	16107.5	16050.1	16042.9	15974.6	16068.0
10°	16006.9	15953.0	15949.4	15888.4	15981.8
12.5°	15870.4	15823.7	15838.1	15777.0	15870.4
15°	15697.9	15669.2	15676.4	15633.3	15748.2
17.5°	15489.5	15475.2	15489.5	15457.2	15561.4
20°	15270.4	15252.4	15274.0	15256.0	15353.0
22.5°	15015.3	14993.7	15036.8	15011.7	15101.5
25°	14735.0	14717.0	14742.2	14735.0	14832.0
27.5°	14415.2	14397.3	14451.2	14454.7	14530.2
30°	14095.4	14070.3	14113.4	14131.4	14206.8
32.5°	13714.6	13707.4	13772.1	13786.4	13865.5
35°	13330.1	13308.6	13373.2	13420.0	13484.6
37.5°	12909.7	12906.2	12974.4	13013.9	13046.3
40°	12467.8	12449.8	12546.9	12586.4	12615.1
42.5°	12018.7	11979.2	12072.6	12122.9	12155.2
45°	11540.8	11476.1	11583.9	11630.6	11677.3
47.5°	11016.2	10958.7	11062.9	11113.2	11145.6
50°	10459.3	10405.4	10520.4	10563.5	10588.7
52.5°	9898.8	9844.9	9967.1	10003.0	10064.1
55°	9230.5	9259.2	9359.8	9392.2	9460.4
57.5°	8612.5	8637.6	8734.6	8774.2	8853.2
60°	7955.0	7994.5	8084.3	8123.8	8184.9
62.5°	7319.0	7322.6	7430.4	7448.3	7495.1
65°	6575.2	6632.7	6711.8	6762.1	6762.1
67.5°	5745.3	5885.4	6021.9	6011.1	6039.9
70°	5051.8	5105.7	5267.4	5292.5	5332.1
72.5°	4182.3	4322.4	4502.1	3363.1	1142.6
75°	3409.8	3557.1	3697.2	603.6	445.5
77.5°	2648.1	2763.0	1228.8	344.9	337.7
80°	1839.6	2022.9	309.0	316.2	327.0
82.5°	1210.9	988.1	255.1	280.3	283.8
85°	614.4	183.2	201.2	208.4	204.8
87.5°	201.2	111.4	115.0	118.6	122.2
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)