

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: P731089

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731089
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-L850
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48765.0 lumens
Efficiency: N/A
Efficacy: 185.4 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

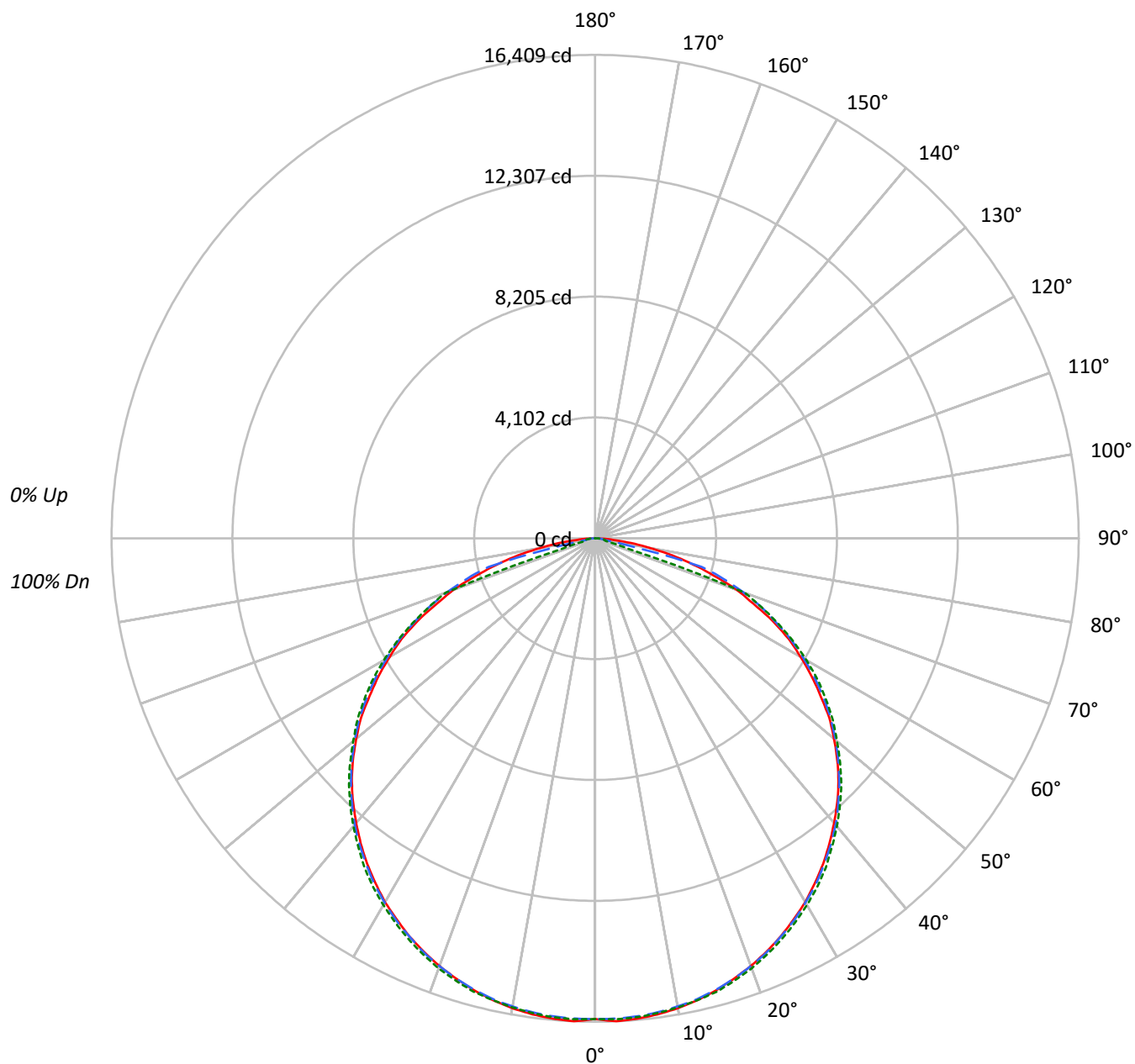
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26347	26347	26347
5°	26536	26401	26448
10°	26551	26456	26509
15°	26547	26511	26632
20°	26545	26551	26689
25°	26558	26571	26733
30°	26587	26621	26797
35°	26582	26668	26890
40°	26586	26755	26900
45°	26661	26760	26976
50°	26580	26735	26909
55°	26288	26656	26943
60°	25989	26412	26740
65°	25415	25942	26137
70°	24128	25157	25466
75°	21521	23335	2812
80°	17306	2907	3076
85°	11515	3772	3838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1549.9	3.2
10°-20°	4478.4	9.2
20°-30°	6880.7	14.1
30°-40°	8470.4	17.4
40°-50°	9030.3	18.5
50°-60°	8441.5	17.3
60°-70°	6682.5	13.7
70°-80°	2843.1	5.8
80°-90°	388.2	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°	12908.9	26.5
0°-40°	21379.3	43.8
0°-60°	38851.1	79.7
0°-90°	48765.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16318	16318	16318	16318	16318	
5°	16373	16300	16289	16224	16318	###
15°	15882	15853	15860	15816	15933	4484
25°	14908	14890	14915	14908	15006	6873
35°	13486	13465	13530	13577	13643	8439
45°	11676	11611	11720	11767	11814	8997
55°	9339	9368	9470	9502	9571	8362
65°	6652	6710	6790	6841	6841	6544
75°	3450	3599	3741	611	451	3650
85°	622	185	204	211	207	810
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16318.2	16318.2	16318.2	16318.2	16318.2
2.5°	16409.0	16332.7	16318.2	16252.7	16340.0
5°	16372.7	16300.0	16289.1	16223.6	16318.2
7.5°	16296.4	16238.2	16230.9	16161.9	16256.4
10°	16194.6	16140.0	16136.4	16074.6	16169.1
12.5°	16056.4	16009.2	16023.7	15961.9	16056.4
15°	15881.9	15852.9	15860.1	15816.5	15932.8
17.5°	15671.1	15656.6	15671.1	15638.4	15743.8
20°	15449.4	15431.2	15453.0	15434.8	15533.0
22.5°	15191.3	15169.5	15213.1	15187.6	15278.5
25°	14907.7	14889.6	14915.0	14907.7	15005.9
27.5°	14584.2	14566.0	14620.6	14624.2	14700.5
30°	14260.7	14235.2	14278.8	14297.0	14373.4
32.5°	13875.3	13868.1	13933.5	13948.0	14028.0
35°	13486.4	13464.6	13530.0	13577.3	13642.7
37.5°	13061.1	13057.4	13126.5	13166.5	13199.2
40°	12614.0	12595.8	12693.9	12733.9	12763.0
42.5°	12159.6	12119.6	12214.1	12265.0	12297.7
45°	11676.1	11610.7	11719.7	11767.0	11814.2
47.5°	11145.4	11087.2	11192.6	11243.5	11276.2
50°	10581.9	10527.4	10643.7	10687.3	10712.8
52.5°	10014.8	9960.3	10083.9	10120.2	10182.0
55°	9338.7	9367.8	9469.6	9502.3	9571.3
57.5°	8713.4	8738.9	8837.0	8877.0	8957.0
60°	8048.2	8088.2	8179.1	8219.1	8280.9
62.5°	7404.8	7408.4	7517.5	7535.7	7582.9
65°	6652.3	6710.5	6790.4	6841.3	6841.3
67.5°	5812.6	5954.4	6092.5	6081.6	6110.7
70°	5111.0	5165.5	5329.1	5354.6	5394.6
72.5°	4231.3	4373.1	4554.8	3402.5	1156.0
75°	3449.8	3598.8	3740.6	610.7	450.8
77.5°	2679.1	2795.4	1243.2	349.0	341.7
80°	1861.2	2046.6	312.6	319.9	330.8
82.5°	1225.0	999.7	258.1	283.5	287.2
85°	621.6	185.4	203.6	210.8	207.2
87.5°	203.6	112.7	116.3	120.0	123.6
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)