

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: P830507

Luminaire Tested: **OHBL-48HE-NL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-NL-UNV-L930-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

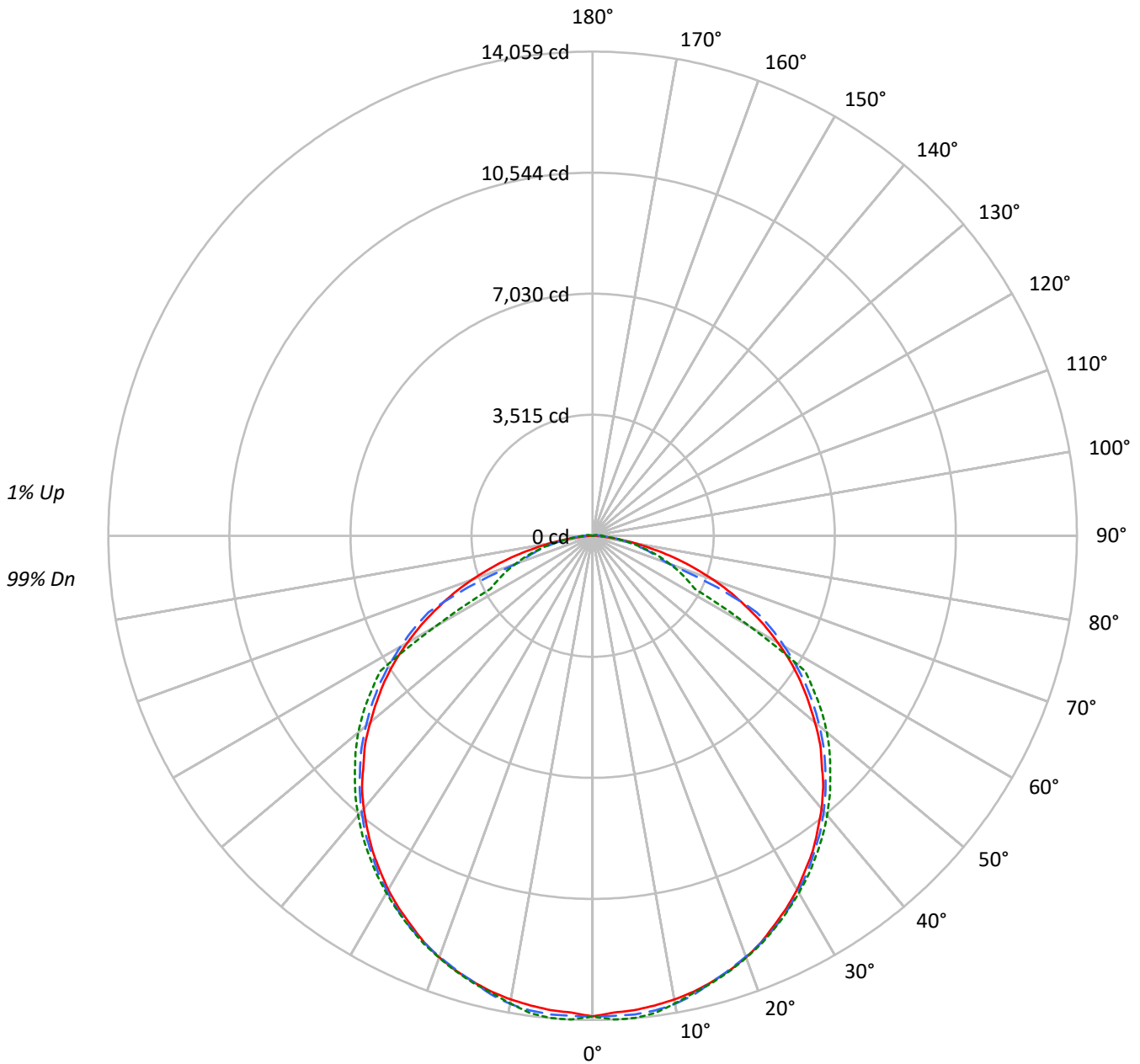
Lumens per Lamp: N/A
Luminaire Lumens: 39184.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 266
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22072	22072	22072
5°	21950	22148	22315
10°	21956	22164	22137
15°	21952	21948	21996
20°	21922	21889	21943
25°	21772	21883	21900
30°	21671	21783	21868
35°	21531	21649	21852
40°	21345	21547	21866
45°	21037	21355	21821
50°	20720	21142	21841
55°	20324	20851	21601
60°	19643	20340	16816
65°	18584	19665	11318
70°	17189	10439	10984
75°	14993	9921	10489
80°	11530	9100	9613
85°	5819	9198	9419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1325.9	3.4
10°-20°	3796.4	9.7
20°-30°	5776.6	14.7
30°-40°	7023.5	17.9
40°-50°	7384.9	18.8
50°-60°	6743.3	17.2
60°-70°	4322.8	11.0
70°-80°	2042.0	5.2
80°-90°	566.2	1.4
90°-100°	150.0	0.4
100°-110°	41.1	0.1
110°-120°	11.4	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°	10898.9	27.8
0°-40°	17922.4	45.7
0°-60°	32050.6	81.8
0°-90°	38981.6	99.5
90°-120°	202.4	0.5
90°-150°	202.4	0.5
90°-180°	202.0	0.5
0°-180°	39184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13956	13956	13956	13956	13956	
5°	13826	13880	13951	14027	14057	###
15°	13408	13508	13405	13425	13435	3785
25°	12477	12497	12541	12560	12551	5757
35°	11152	11086	11214	11351	11319	6969
45°	9406	9389	9548	9774	9756	7270
55°	7371	7315	7562	7814	7834	6574
65°	4966	4966	5255	3015	3024	4924
75°	2454	2500	1624	1709	1717	2587
85°	321	406	507	549	519	474
90°	0	137	225	267	262	14
95°	7	71	162	218	218	4
105°	12	27	39	39	37	12
115°	12	17	24	17	2	9
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13956.3	13956.3	13956.3	13956.3	13956.3
2.5°	13858.3	13905.0	13956.3	14022.4	14059.0
5°	13826.4	13880.4	13951.4	14027.4	14056.7
7.5°	13758.0	13833.7	13902.4	13956.3	13973.4
10°	13672.2	13762.9	13802.1	13797.1	13785.0
12.5°	13557.1	13652.7	13640.5	13584.0	13593.9
15°	13407.7	13508.1	13405.4	13424.8	13434.7
17.5°	13231.4	13329.4	13209.4	13248.5	13251.1
20°	13025.8	13099.2	13006.1	13038.0	13038.0
22.5°	12778.5	12829.8	12790.6	12812.7	12817.6
25°	12477.2	12496.6	12540.7	12560.4	12550.6
27.5°	12188.4	12163.7	12249.5	12296.0	12271.3
30°	11867.4	11828.2	11928.6	12004.5	11975.2
32.5°	11500.0	11475.6	11590.7	11681.2	11664.1
35°	11152.3	11086.2	11213.5	11350.7	11318.8
37.5°	10740.8	10701.7	10846.1	10990.8	10973.7
40°	10339.2	10273.1	10437.2	10608.6	10591.5
42.5°	9908.3	9829.8	10008.7	10214.5	10194.8
45°	9406.1	9389.0	9548.2	9773.5	9756.4
47.5°	8960.7	8874.9	9097.6	9315.6	9335.3
50°	8421.7	8390.0	8593.3	8857.8	8877.2
52.5°	7895.3	7873.3	8086.2	8353.2	8387.4
55°	7371.1	7314.8	7562.2	7814.4	7834.2
57.5°	6810.5	6751.7	7004.0	7278.3	7319.8
60°	6210.3	6154.1	6430.7	6685.6	5316.6
62.5°	5610.4	5571.2	5860.3	4150.9	3345.4
65°	4966.3	4966.3	5255.2	3014.6	3024.4
67.5°	4364.1	4324.9	3918.4	2708.4	2708.4
70°	3717.4	3732.2	2257.7	2373.1	2375.4
72.5°	3068.5	3122.4	1949.5	2042.3	2047.2
75°	2453.7	2500.4	1623.6	1709.4	1716.6
77.5°	1802.5	1386.1	1305.2	1371.5	1373.9
80°	1266.0	874.3	999.2	1062.8	1055.5
82.5°	739.4	612.1	732.2	778.9	776.3
85°	320.7	406.5	506.9	548.6	519.1
87.5°	102.7	252.3	315.8	340.4	337.8
90°	0.0	137.2	225.3	266.8	262.1
92.5°	0.0	107.6	196.0	245.0	247.3
95°	7.3	71.0	161.8	218.0	218.0
97.5°	4.9	51.3	115.1	171.4	176.3
100°	4.9	41.5	76.0	122.4	125.0
102.5°	12.2	34.2	46.4	78.3	80.9
105°	12.2	27.0	39.2	39.2	36.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.8	19.7	27.0	19.7	2.3
115°	12.2	17.1	24.4	17.1	2.3
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	12.2	24.4	34.2	22.0	7.3
110°	14.8	22.0	29.3	19.7	2.3



(END OF REPORT)