

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: P830090

Luminaire Tested: **OHBL-24HE-W-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-W-UNV-L950-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

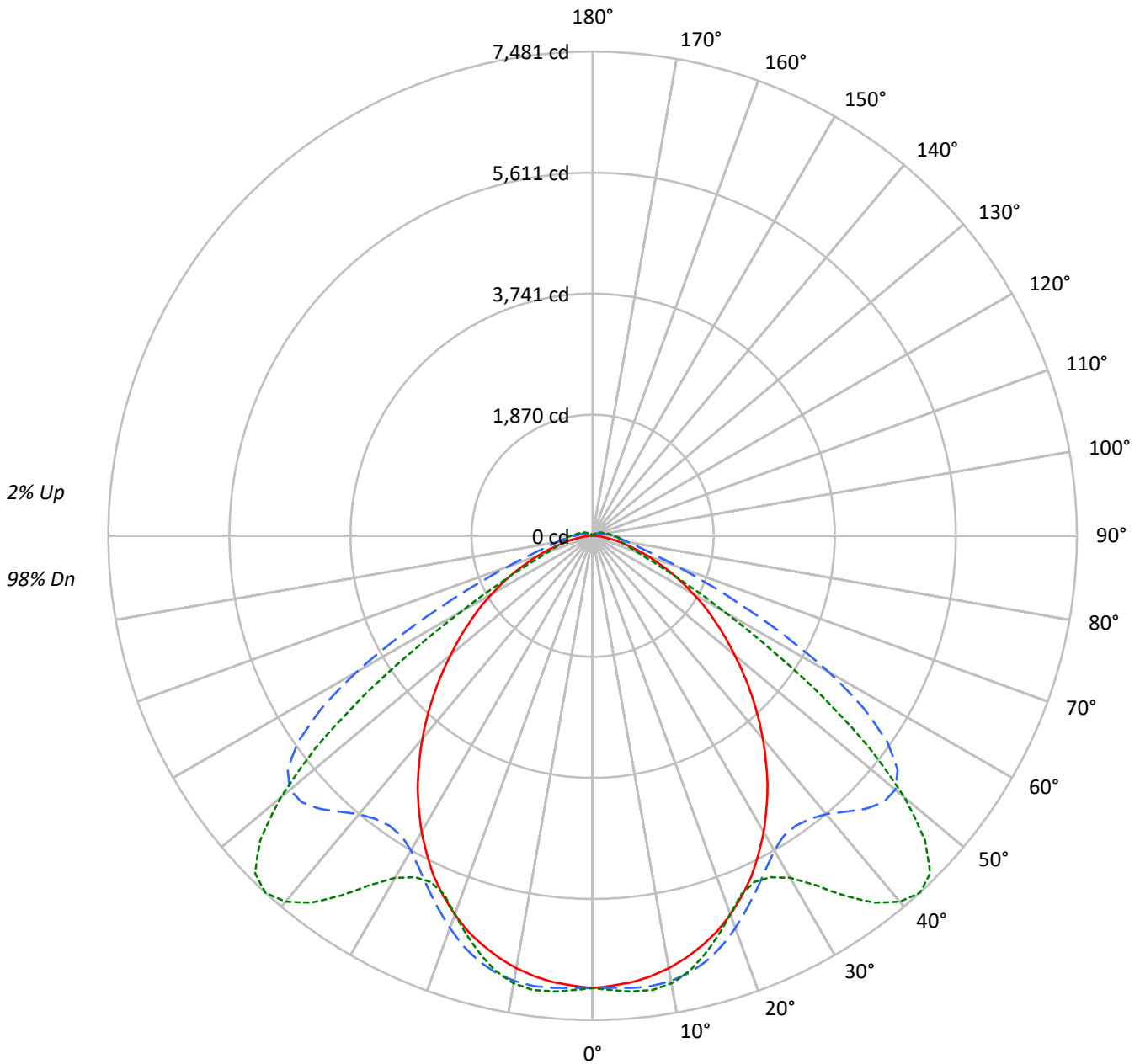
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20923.0 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{in}): 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				20
RC	80				70				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	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11051	11051	11051
5°	10948	11041	11130
10°	10811	11029	11096
15°	10600	10851	10694
20°	10311	10483	10125
25°	9924	10037	9876
30°	9410	9706	10574
35°	8824	9891	12306
40°	8143	10718	14140
45°	7431	12167	15094
50°	6689	13464	13934
55°	5991	13460	10544
60°	5281	11400	6369
65°	4531	7883	3799
70°	3681	5106	2684
75°	2800	3669	2410
80°	2010	3237	2575
85°	1365	3587	3628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.8	3.2
10°-20°	1890.9	9.0
20°-30°	2767.1	13.2
30°-40°	3593.6	17.2
40°-50°	4388.2	21.0
50°-60°	3864.5	18.5
60°-70°	2013.8	9.6
70°-80°	863.6	4.1
80°-90°	414.7	2.0
90°-100°	194.8	0.9
100°-110°	121.1	0.6
110°-120°	71.6	0.3
120°-130°	38.9	0.2
130°-140°	19.5	0.1
140°-150°	9.4	0.0
150°-160°	3.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5325.8	25.5
0°-40°	8919.4	42.6
0°-60°	17172.1	82.1
0°-90°	20464.3	97.8
90°-120°	387.6	1.9
90°-150°	455.4	2.2
90°-180°	459.0	2.2
0°-180°	20923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6988	6988	6988	6988	6988	
5°	6923	6976	7014	7075	7068	657
15°	6551	6735	6799	6748	6694	1844
25°	5804	6115	6011	5898	5904	2664
35°	4711	5209	5470	6379	6787	2937
45°	3469	4365	5966	7223	7374	2675
55°	2310	3823	5556	4871	4330	2073
65°	1325	2649	2543	1414	1217	1311
75°	534	1239	817	559	531	582
85°	113	442	416	407	412	126
90°	2	160	274	314	321	8
95°	3	94	219	256	264	2
105°	6	53	142	170	173	6
115°	9	30	87	107	110	9
125°	11	15	51	66	68	9
135°	9	9	24	41	42	7
145°	12	9	11	20	23	7
155°	12	12	9	9	9	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6987.9	6987.9	6987.9	6987.9	6987.9
2.5°	6957.7	6987.9	6989.4	7031.6	7027.1
5°	6923.1	6975.8	7013.5	7075.3	7067.8
7.5°	6865.8	6948.7	7015.0	7082.9	7076.9
10°	6784.4	6897.4	6984.9	7040.7	7022.6
12.5°	6678.8	6828.1	6914.0	6926.1	6891.4
15°	6550.7	6734.6	6799.4	6748.2	6693.9
17.5°	6406.0	6621.5	6644.2	6532.6	6464.7
20°	6225.0	6470.8	6448.2	6294.4	6219.0
22.5°	6024.5	6304.9	6232.6	6071.3	5998.9
25°	5804.4	6115.0	6011.0	5897.9	5903.9
27.5°	5546.6	5899.4	5798.4	5849.6	5946.1
30°	5284.3	5673.2	5611.4	5909.9	6099.9
32.5°	4996.3	5441.1	5496.8	6086.3	6396.9
35°	4711.4	5208.9	5469.7	6378.8	6787.4
37.5°	4396.3	4973.7	5513.4	6716.5	7144.7
40°	4090.2	4744.5	5612.9	7019.6	7381.4
42.5°	3778.1	4539.5	5780.3	7199.0	7480.9
45°	3469.1	4364.6	5965.7	7223.1	7373.9
47.5°	3160.0	4216.9	6093.9	7031.6	6962.3
50°	2861.5	4085.7	6102.9	6571.8	6288.4
52.5°	2582.6	3965.1	5937.1	5839.1	5398.9
55°	2309.7	3823.4	5555.6	4871.2	4329.9
57.5°	2060.9	3627.4	4967.7	3830.9	3239.9
60°	1797.1	3362.0	4207.8	2802.7	2336.8
62.5°	1554.4	3031.9	3356.0	1950.9	1679.5
65°	1325.2	2648.9	2543.4	1414.2	1216.7
67.5°	1082.5	2252.4	1877.0	1031.2	904.6
70°	892.5	1884.5	1397.6	802.1	728.2
72.5°	698.0	1534.8	1044.8	651.3	610.6
75°	533.7	1239.3	817.1	559.3	530.7
77.5°	393.5	980.0	657.3	494.5	467.4
80°	275.9	771.9	550.3	441.7	431.2
82.5°	185.4	597.0	468.9	420.6	422.1
85°	113.1	441.7	416.1	407.1	411.6
87.5°	54.3	313.6	357.3	370.9	375.4
90°	1.5	159.8	274.4	313.6	321.1
92.5°	0.0	122.1	241.2	280.4	288.0
95°	3.0	93.5	218.6	256.3	263.8
97.5°	3.0	76.9	196.0	235.2	239.7
100°	4.5	66.3	174.9	212.6	217.1
102.5°	4.5	58.8	156.8	190.0	193.0
105°	6.0	52.8	141.7	170.4	173.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.0	36.2	99.5	120.6	123.6
115°	9.0	30.2	87.4	107.0	110.1
117.5°	10.6	27.1	76.9	95.0	96.5
120°	10.6	22.6	66.3	84.4	85.9
122.5°	10.6	18.1	58.8	75.4	76.9
125°	10.6	15.1	51.3	66.3	67.8
127.5°	9.0	10.6	43.7	58.8	60.3
130°	9.0	9.0	36.2	51.3	54.3
132.5°	9.0	9.0	30.2	45.2	48.2
135°	9.0	9.0	24.1	40.7	42.2
137.5°	9.0	9.0	19.6	34.7	37.7
140°	9.0	9.0	15.1	30.2	31.7
142.5°	10.6	9.0	13.6	25.6	27.1
145°	12.1	9.0	10.6	19.6	22.6
147.5°	12.1	10.6	10.6	16.6	18.1
150°	12.1	12.1	9.0	12.1	15.1
152.5°	12.1	12.1	9.0	9.0	12.1
155°	12.1	12.1	9.0	9.0	9.0
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°	7.5	46.7	126.6	152.3	155.3
110°	7.5	40.7	111.6	135.7	138.7



(END OF REPORT)