

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: P830087

Luminaire Tested: **OHBL-24HE-W-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830087
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-L930-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

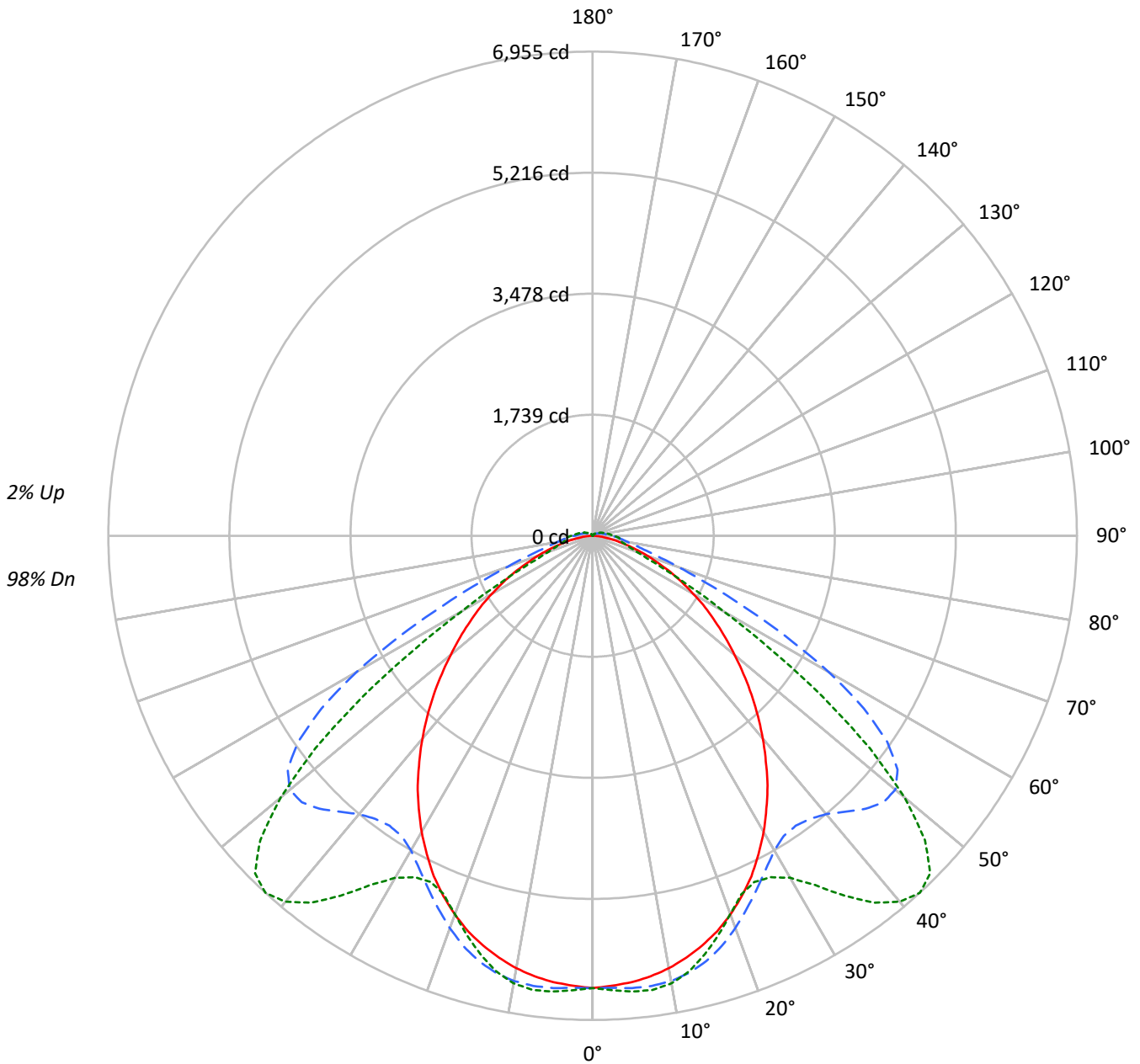
Lumens per Lamp: N/A
Luminaire Lumens: 19453.0 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10275	10275	10275
5°	10179	10265	10348
10°	10051	10254	10317
15°	9855	10089	9943
20°	9587	9747	9414
25°	9227	9331	9182
30°	8749	9024	9831
35°	8204	9196	11441
40°	7571	9965	13146
45°	6909	11312	14034
50°	6219	12518	12955
55°	5570	12514	9803
60°	4910	10600	5922
65°	4212	7330	3532
70°	3422	4748	2495
75°	2604	3411	2240
80°	1869	3010	2394
85°	1268	3335	3373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.9	3.2
10°-20°	1758.1	9.0
20°-30°	2572.7	13.2
30°-40°	3341.1	17.2
40°-50°	4079.9	21.0
50°-60°	3593.0	18.5
60°-70°	1872.3	9.6
70°-80°	802.9	4.1
80°-90°	385.6	2.0
90°-100°	181.2	0.9
100°-110°	112.6	0.6
110°-120°	66.6	0.3
120°-130°	36.2	0.2
130°-140°	18.2	0.1
140°-150°	8.7	0.0
150°-160°	3.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	4951.6	25.5
0°-40°	8292.7	42.6
0°-60°	15965.7	82.1
0°-90°	19026.5	97.8
90°-120°	360.3	1.9
90°-150°	423.4	2.2
90°-180°	426.0	2.2
0°-180°	19453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6497	6497	6497	6497	6497	
5°	6437	6486	6521	6578	6571	610
15°	6090	6262	6322	6274	6224	1715
25°	5397	5685	5589	5484	5489	2477
35°	4380	4843	5085	5931	6310	2730
45°	3225	4058	5547	6716	6856	2487
55°	2147	3555	5165	4529	4026	1927
65°	1232	2463	2365	1315	1131	1219
75°	496	1152	760	520	493	541
85°	105	411	387	378	383	117
90°	1	149	255	292	299	7
95°	3	87	203	238	245	2
105°	6	49	132	158	161	6
115°	8	28	81	100	102	9
125°	10	14	48	62	63	8
135°	8	8	22	38	39	7
145°	11	8	10	18	21	7
155°	11	11	8	8	8	3
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°	6496.9	6496.9	6496.9	6496.9	6496.9
2.5°	6468.9	6496.9	6498.3	6537.6	6533.4
5°	6436.7	6485.7	6520.8	6578.2	6571.2
7.5°	6383.4	6460.5	6522.2	6585.3	6579.6
10°	6307.7	6412.8	6494.1	6546.0	6529.2
12.5°	6209.6	6348.4	6428.3	6439.5	6407.2
15°	6090.4	6261.5	6321.7	6274.1	6223.6
17.5°	5955.9	6156.3	6177.4	6073.6	6010.6
20°	5787.7	6016.2	5995.1	5852.2	5782.1
22.5°	5601.3	5862.0	5794.7	5644.7	5577.4
25°	5396.6	5685.4	5588.6	5483.5	5489.1
27.5°	5156.9	5484.9	5391.0	5438.7	5528.4
30°	4913.0	5274.7	5217.2	5494.7	5671.3
32.5°	4645.3	5058.8	5110.7	5658.7	5947.5
35°	4380.4	4842.9	5085.4	5930.7	6310.5
37.5°	4087.4	4624.3	5126.1	6244.6	6642.7
40°	3802.9	4411.2	5218.6	6526.4	6862.8
42.5°	3512.7	4220.6	5374.2	6693.2	6955.3
45°	3225.3	4058.0	5546.6	6715.6	6855.8
47.5°	2938.0	3920.6	5665.7	6537.6	6473.1
50°	2660.5	3798.6	5674.1	6110.1	5846.6
52.5°	2401.1	3686.5	5520.0	5428.8	5019.5
55°	2147.4	3554.7	5165.3	4528.9	4025.7
57.5°	1916.1	3372.5	4618.6	3561.8	3012.3
60°	1670.8	3125.8	3912.2	2605.8	2172.7
62.5°	1445.2	2818.8	3120.2	1813.8	1561.5
65°	1232.1	2462.8	2364.7	1314.8	1131.2
67.5°	1006.4	2094.2	1745.1	958.8	841.0
70°	829.8	1752.1	1299.4	745.7	677.0
72.5°	649.0	1426.9	971.4	605.5	567.7
75°	496.2	1152.2	759.7	520.0	493.4
77.5°	365.8	911.1	611.1	459.8	434.5
80°	256.5	717.7	511.6	410.7	400.9
82.5°	172.4	555.1	435.9	391.1	392.5
85°	105.1	410.7	386.9	378.5	382.7
87.5°	50.5	291.6	332.2	344.8	349.0
90°	1.4	148.6	255.1	291.6	298.6
92.5°	0.0	113.5	224.3	260.7	267.7
95°	2.8	86.9	203.2	238.3	245.3
97.5°	2.8	71.5	182.2	218.7	222.9
100°	4.2	61.7	162.6	197.6	201.8
102.5°	4.2	54.7	145.8	176.6	179.4
105°	5.6	49.1	131.8	158.4	161.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.4	33.6	92.5	112.1	114.9
115°	8.4	28.0	81.3	99.5	102.3
117.5°	9.8	25.2	71.5	88.3	89.7
120°	9.8	21.0	61.7	78.5	79.9
122.5°	9.8	16.8	54.7	70.1	71.5
125°	9.8	14.0	47.7	61.7	63.1
127.5°	8.4	9.8	40.6	54.7	56.1
130°	8.4	8.4	33.6	47.7	50.5
132.5°	8.4	8.4	28.0	42.1	44.9
135°	8.4	8.4	22.4	37.8	39.2
137.5°	8.4	8.4	18.2	32.2	35.0
140°	8.4	8.4	14.0	28.0	29.4
142.5°	9.8	8.4	12.6	23.8	25.2
145°	11.2	8.4	9.8	18.2	21.0
147.5°	11.2	9.8	9.8	15.4	16.8
150°	11.2	11.2	8.4	11.2	14.0
152.5°	11.2	11.2	8.4	8.4	11.2
155°	11.2	11.2	8.4	8.4	8.4
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°	7.0	43.5	117.7	141.6	<i>144.4</i>
110°	7.0	37.8	103.7	126.2	<i>129.0</i>



(END OF REPORT)