

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: P830459

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-A-UNV-L930-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

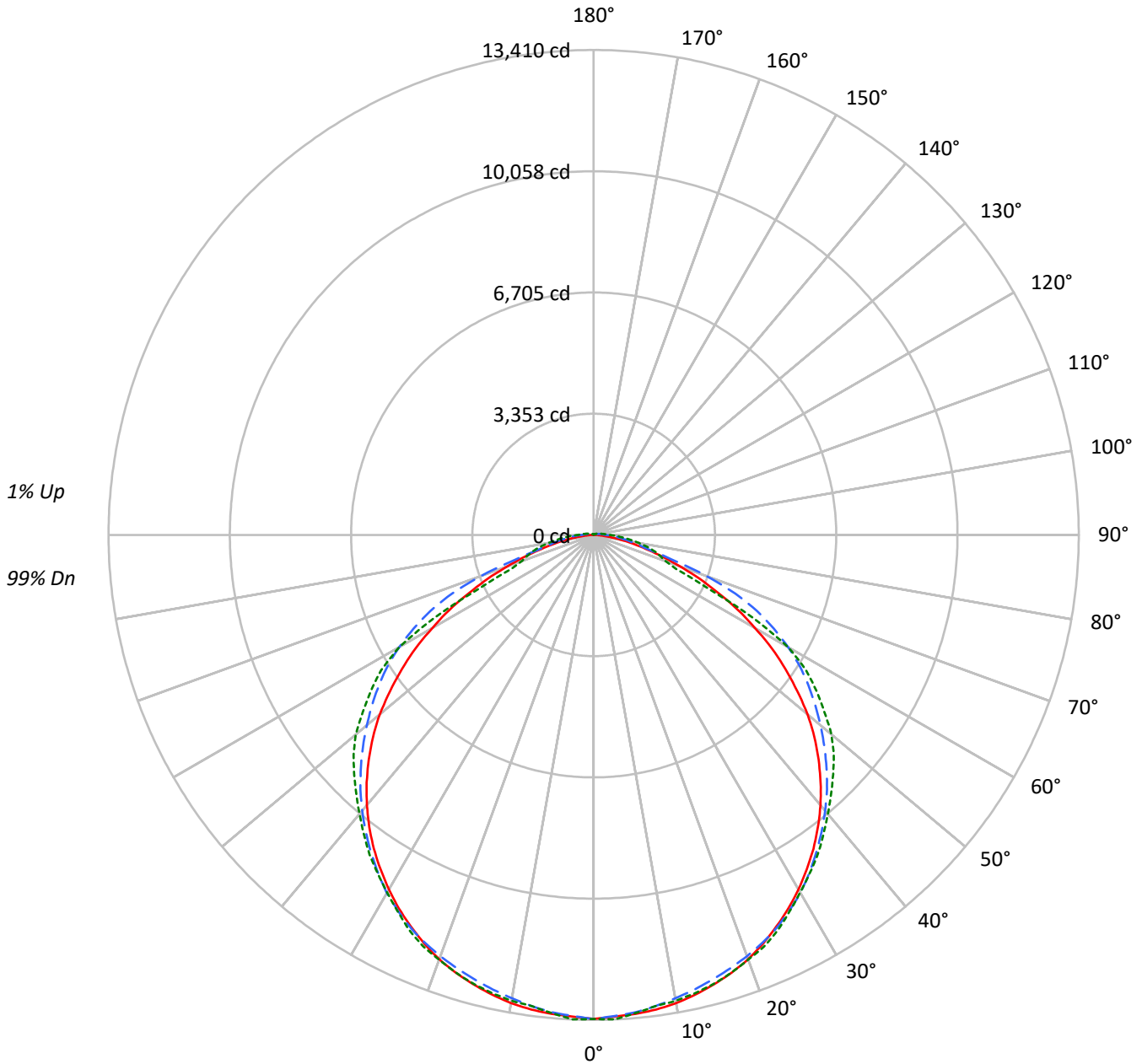
Lumens per Lamp: N/A
Luminaire Lumens: 37826.1 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
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									
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	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21165	21165	21165
5°	21026	20857	20901
10°	20949	20541	20669
15°	20816	20305	20531
20°	20683	20156	20349
25°	20434	20006	20169
30°	20162	19770	19787
35°	19838	19395	19577
40°	19416	19008	19290
45°	18831	18560	19163
50°	18039	18050	19012
55°	16780	17548	18302
60°	15131	16813	16920
65°	12980	15451	10723
70°	10455	12061	7775
75°	7839	7160	7891
80°	5456	5953	7534
85°	3106	5455	7061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1261.9	3.3
10°-20°	3618.5	9.6
20°-30°	5526.6	14.6
30°-40°	6705.6	17.7
40°-50°	7028.1	18.6
50°-60°	6368.5	16.8
60°-70°	4269.8	11.3
70°-80°	1917.4	5.1
80°-90°	695.8	1.8
90°-100°	209.4	0.6
100°-110°	98.8	0.3
110°-120°	49.5	0.1
120°-130°	27.3	0.1
130°-140°	18.8	0.0
140°-150°	12.7	0.0
150°-160°	9.4	0.0
160°-170°	6.0	0.0
170°-180°	1.9	0.0
0°-30°	10406.9	27.5
0°-40°	17112.5	45.2
0°-60°	30509.2	80.7
0°-90°	37392.1	98.9
90°-120°	357.8	0.9
90°-150°	416.6	1.1
90°-180°	434.0	1.1
0°-180°	37826.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13383	13383	13383	13383	13383	
5°	13296	13342	13249	13290	13273	###
15°	12864	12814	12723	12835	12851	3632
25°	11951	11899	11982	12092	12057	5509
35°	10592	10618	10726	10840	10798	6621
45°	8791	8934	9101	9333	9362	6772
55°	6469	6780	7243	7533	7516	5774
65°	3797	4391	4985	4207	3435	3783
75°	1494	2167	1594	1631	1738	1633
85°	257	493	633	764	801	314
90°	2	164	327	410	430	15
95°	2	103	224	273	281	3
105°	8	44	110	134	139	9
115°	16	23	56	72	76	14
125°	14	16	35	41	43	13
135°	17	19	21	31	33	14
145°	17	19	19	21	23	12
155°	19	21	21	21	19	9
165°	21	21	21	21	21	6
175°	21	21	19	17	17	2
180°	19	19	19	19	19	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13382.9	13382.9	13382.9	13382.9	<i>13382.9</i>
2.5°	<i>13328.7</i>	<i>13384.8</i>	<i>13315.1</i>	<i>13390.6</i>	<i>13410.0</i>
5°	13295.8	13342.2	13249.4	13290.0	<i>13272.6</i>
7.5°	13235.8	13251.3	13141.0	13173.9	<i>13139.1</i>
10°	13146.8	13139.1	13009.4	13073.3	<i>13081.0</i>
12.5°	13015.2	12992.0	12875.9	12972.6	<i>12974.6</i>
15°	12864.3	12814.0	12723.0	12835.2	<i>12850.7</i>
17.5°	12690.1	12624.3	12564.3	12709.5	<i>12686.2</i>
20°	12486.9	12409.5	12397.9	12556.6	<i>12498.5</i>
22.5°	12235.4	12175.4	12202.5	12353.4	<i>12316.7</i>
25°	11950.9	11898.7	11981.9	12092.2	<i>12057.4</i>
27.5°	11651.0	11620.0	11714.8	11800.0	<i>11732.3</i>
30°	11322.0	11304.6	11430.4	11500.1	<i>11414.9</i>
32.5°	10964.0	10969.9	11089.8	11184.6	<i>11105.3</i>
35°	10592.5	10617.7	10726.0	10840.2	<i>10797.6</i>
37.5°	10184.2	10240.3	10348.7	10478.3	<i>10433.8</i>
40°	9752.7	9834.0	9953.9	10110.7	<i>10070.0</i>
42.5°	9286.4	9388.9	9543.7	9717.9	<i>9714.0</i>
45°	8791.0	8934.2	9100.6	9332.8	<i>9361.8</i>
47.5°	8276.2	8436.9	8647.8	8957.4	<i>9001.9</i>
50°	7717.0	7918.3	8181.4	8553.0	<i>8580.1</i>
52.5°	7093.9	7368.7	7717.0	8073.1	<i>8040.2</i>
55°	6468.9	6780.4	7242.9	7533.2	<i>7515.8</i>
57.5°	5845.8	6196.1	6757.2	6964.3	<i>6962.3</i>
60°	5149.2	5592.3	6205.7	6362.5	<i>6207.7</i>
62.5°	4504.8	4980.8	5617.5	5503.3	<i>4973.1</i>
65°	3796.6	4390.6	4984.7	4206.8	<i>3434.7</i>
67.5°	3167.7	3786.9	4233.9	2881.3	<i>2467.2</i>
70°	2534.9	3218.0	3301.2	2138.2	<i>2109.2</i>
72.5°	1973.8	2701.3	2277.6	1830.6	<i>1923.4</i>
75°	1493.9	2167.3	1594.5	1631.3	<i>1737.7</i>
77.5°	1089.4	1664.2	1240.4	1430.0	<i>1517.1</i>
80°	748.9	1178.5	1012.0	1201.7	<i>1261.7</i>
82.5°	470.2	777.9	810.8	967.5	<i>1029.5</i>
85°	257.4	493.4	632.8	764.3	<i>801.1</i>
87.5°	106.4	298.0	483.8	590.2	<i>621.2</i>
90°	1.9	164.5	327.0	410.2	<i>429.6</i>
92.5°	1.9	125.8	267.0	330.9	<i>344.4</i>
95°	1.9	102.6	224.5	272.8	<i>280.6</i>
97.5°	3.9	81.3	187.7	226.4	<i>234.1</i>
100°	5.8	67.7	156.7	189.6	<i>195.4</i>
102.5°	7.7	54.2	131.6	158.7	<i>164.5</i>
105°	7.7	44.5	110.3	133.5	<i>139.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.5	27.1	65.8	83.2	87.1
115°	15.5	23.2	56.1	71.6	75.5
117.5°	15.5	19.4	48.4	60.0	63.9
120°	15.5	17.4	42.6	52.2	54.2
122.5°	15.5	15.5	36.8	46.4	48.4
125°	13.5	15.5	34.8	40.6	42.6
127.5°	15.5	15.5	31.0	36.8	38.7
130°	15.5	17.4	27.1	34.8	34.8
132.5°	17.4	19.4	25.2	32.9	32.9
135°	17.4	19.4	21.3	31.0	32.9
137.5°	19.4	19.4	19.4	29.0	31.0
140°	19.4	19.4	17.4	25.2	27.1
142.5°	17.4	19.4	17.4	23.2	25.2
145°	17.4	19.4	19.4	21.3	23.2
147.5°	19.4	19.4	19.4	19.4	21.3
150°	19.4	19.4	19.4	19.4	19.4
152.5°	19.4	19.4	19.4	19.4	19.4
155°	19.4	21.3	21.3	21.3	19.4
157.5°	19.4	21.3	21.3	21.3	21.3
160°	19.4	21.3	21.3	21.3	21.3
162.5°	21.3	21.3	21.3	21.3	21.3
165°	21.3	21.3	21.3	21.3	21.3
167.5°	21.3	23.2	21.3	21.3	21.3
170°	21.3	21.3	21.3	19.4	19.4
172.5°	21.3	21.3	21.3	19.4	19.4
175°	21.3	21.3	19.4	17.4	17.4
177.5°	23.2	21.3	19.4	17.4	15.5
180°	19.4	19.4	19.4	19.4	19.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	9.7	36.8	94.8	114.2	<i>118.0</i>
110°	11.6	31.0	79.3	96.8	<i>100.6</i>



(END OF REPORT)