

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: P830496

Luminaire Tested: **OHBL-48HE-N-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-N-UNV-L935-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

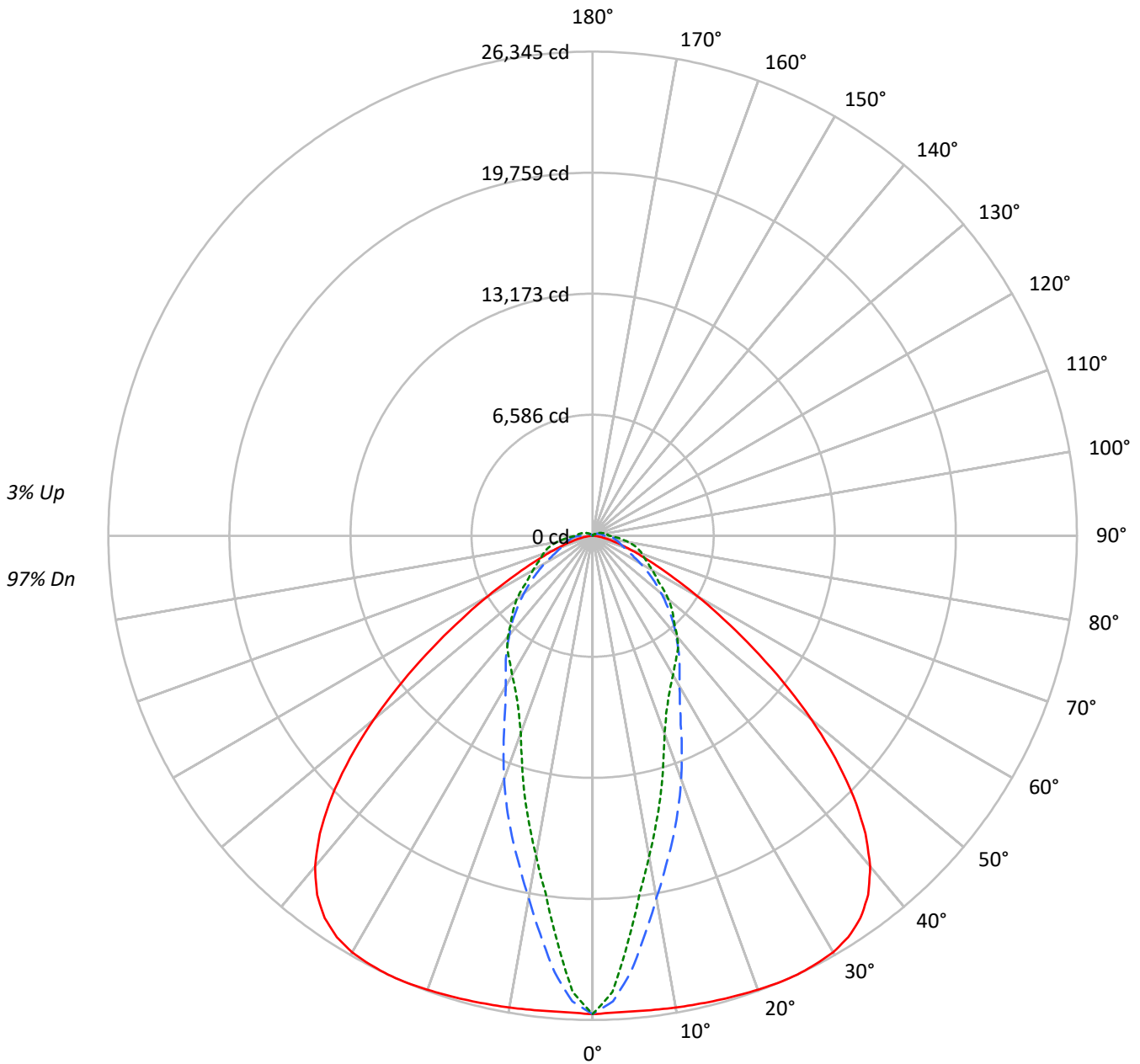
Lumens per Lamp: N/A
Luminaire Lumens: 38410.9 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	41159	41159	41159
5°	41075	37499	34872
10°	41538	31601	27980
15°	42350	27039	22980
20°	43539	22873	18599
25°	45045	18942	16308
30°	46602	16327	15161
35°	47572	14888	14456
40°	46758	13457	13727
45°	43015	12169	12721
50°	36291	10760	11954
55°	27576	9434	10652
60°	19325	8100	10215
65°	12999	6986	10022
70°	8878	6570	10545
75°	6161	6796	11315
80°	4241	7562	11729
85°	2481	9545	12467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2190.8	5.7
10°-20°	5153.7	13.4
20°-30°	6460.1	16.8
30°-40°	6854.9	17.8
40°-50°	6198.0	16.1
50°-60°	4493.9	11.7
60°-70°	2820.2	7.3
70°-80°	1866.3	4.9
80°-90°	1075.2	2.8
90°-100°	520.9	1.4
100°-110°	359.5	0.9
110°-120°	221.8	0.6
120°-130°	107.4	0.3
130°-140°	49.4	0.1
140°-150°	27.0	0.1
150°-160°	11.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	13804.7	35.9
0°-40°	20659.6	53.8
0°-60°	31351.5	81.6
0°-90°	37113.1	96.6
90°-120°	1102.3	2.9
90°-150°	1286.1	3.3
90°-180°	1298.0	3.4
0°-180°	38410.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26026	26026	26026	26026	26026	
5°	25974	25307	23821	22716	22144	###
15°	26172	21332	16942	15067	14384	7422
25°	26345	16494	11344	10069	9749	12171
35°	25401	10966	8233	7976	7973	15791
45°	20081	6945	5967	6111	6215	15297
55°	10631	4305	3894	4223	4374	9606
65°	3802	2497	2254	2888	3210	3956
75°	1174	1345	1513	2351	2492	1309
85°	206	557	1107	1541	1414	246
90°	0	233	642	904	912	13
95°	10	164	565	768	802	9
105°	20	109	411	545	560	20
115°	27	77	277	347	354	27
125°	30	40	141	178	176	26
135°	25	30	62	97	97	19
145°	30	32	37	57	54	18
155°	30	37	40	42	37	9
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°	26025.5	26025.5	26025.5	26025.5	26025.5
2.5°	25971.0	25822.4	25359.2	25076.8	24839.0
5°	25973.5	25307.2	23821.0	22716.3	22144.1
7.5°	26010.6	24529.4	21851.8	20239.3	19610.2
10°	26067.6	23565.9	20013.9	18294.9	17707.8
12.5°	26109.7	22481.0	18396.4	16630.4	15986.4
15°	26171.6	21331.6	16942.5	15067.4	14383.8
17.5°	26228.6	20249.2	15505.8	13546.5	12786.1
20°	26285.6	19082.6	14069.2	12050.4	11423.8
22.5°	26340.1	17851.5	12667.2	10888.8	10460.2
25°	26345.0	16494.1	11344.5	10068.9	9749.3
27.5°	26280.6	15087.2	10272.0	9382.8	9184.6
30°	26169.2	13722.4	9439.7	8887.4	8746.2
32.5°	25891.7	12330.3	8795.7	8409.3	8327.6
35°	25401.3	10965.5	8233.4	7975.8	7973.4
37.5°	24628.5	9754.3	7624.1	7579.5	7634.0
40°	23486.6	8694.2	7047.0	7165.9	7165.9
42.5°	21963.3	7772.7	6524.3	6645.7	6613.5
45°	20080.8	6945.4	5967.0	6110.7	6214.7
47.5°	17898.6	6217.2	5397.3	5674.7	5818.4
50°	15525.6	5523.6	4877.1	5231.4	5394.8
52.5°	13038.8	4882.1	4369.4	4775.6	4906.9
55°	10631.1	4305.0	3893.8	4223.2	4374.3
57.5°	8451.4	3755.1	3428.1	3740.2	4052.3
60°	6576.3	3282.0	2989.7	3435.6	3747.7
62.5°	5023.3	2860.9	2578.5	3150.7	3462.8
65°	3802.1	2496.8	2254.0	2888.1	3210.2
67.5°	2865.9	2182.2	2001.4	2697.4	3012.0
70°	2152.5	1877.5	1798.3	2578.5	2860.9
72.5°	1590.2	1597.6	1637.3	2474.5	2690.0
75°	1174.1	1345.0	1513.4	2350.6	2491.8
77.5°	839.7	1114.6	1402.0	2202.0	2251.6
80°	582.1	909.0	1285.5	2006.3	1964.2
82.5°	364.1	728.2	1181.5	1790.8	1674.4
85°	205.6	557.3	1107.2	1540.7	1414.3
87.5°	91.6	416.1	968.5	1201.3	1122.1
90°	0.0	232.8	641.5	904.1	911.5
92.5°	5.0	193.2	592.0	827.3	852.1
95°	9.9	163.5	564.7	767.9	802.5
97.5°	12.4	143.7	530.1	713.4	743.1
100°	14.9	128.8	488.0	656.4	681.2
102.5°	17.3	118.9	448.3	596.9	616.8
105°	19.8	109.0	411.2	544.9	559.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.8	84.2	309.6	391.4	403.7
115°	27.2	76.8	277.4	346.8	354.2
117.5°	29.7	66.9	242.7	304.7	307.1
120°	29.7	59.4	208.1	260.1	260.1
122.5°	29.7	49.5	173.4	215.5	213.0
125°	29.7	39.6	141.2	178.3	175.9
127.5°	27.2	32.2	113.9	148.6	146.1
130°	27.2	32.2	91.6	126.3	126.3
132.5°	24.8	29.7	74.3	109.0	109.0
135°	24.8	29.7	61.9	96.6	96.6
137.5°	24.8	32.2	52.0	84.2	84.2
140°	24.8	29.7	44.6	74.3	74.3
142.5°	27.2	29.7	39.6	64.4	64.4
145°	29.7	32.2	37.2	57.0	54.5
147.5°	29.7	34.7	37.2	49.5	47.1
150°	29.7	37.2	37.2	44.6	42.1
152.5°	29.7	37.2	37.2	42.1	39.6
155°	29.7	37.2	39.6	42.1	37.2
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°	19.8	101.6	376.5	488.0	505.3
110°	22.3	91.6	344.3	435.9	453.3



(END OF REPORT)