

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: P830860

Luminaire Tested: **OHBL-90SE-NL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830860
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-90SE-NL-UNV-L735-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

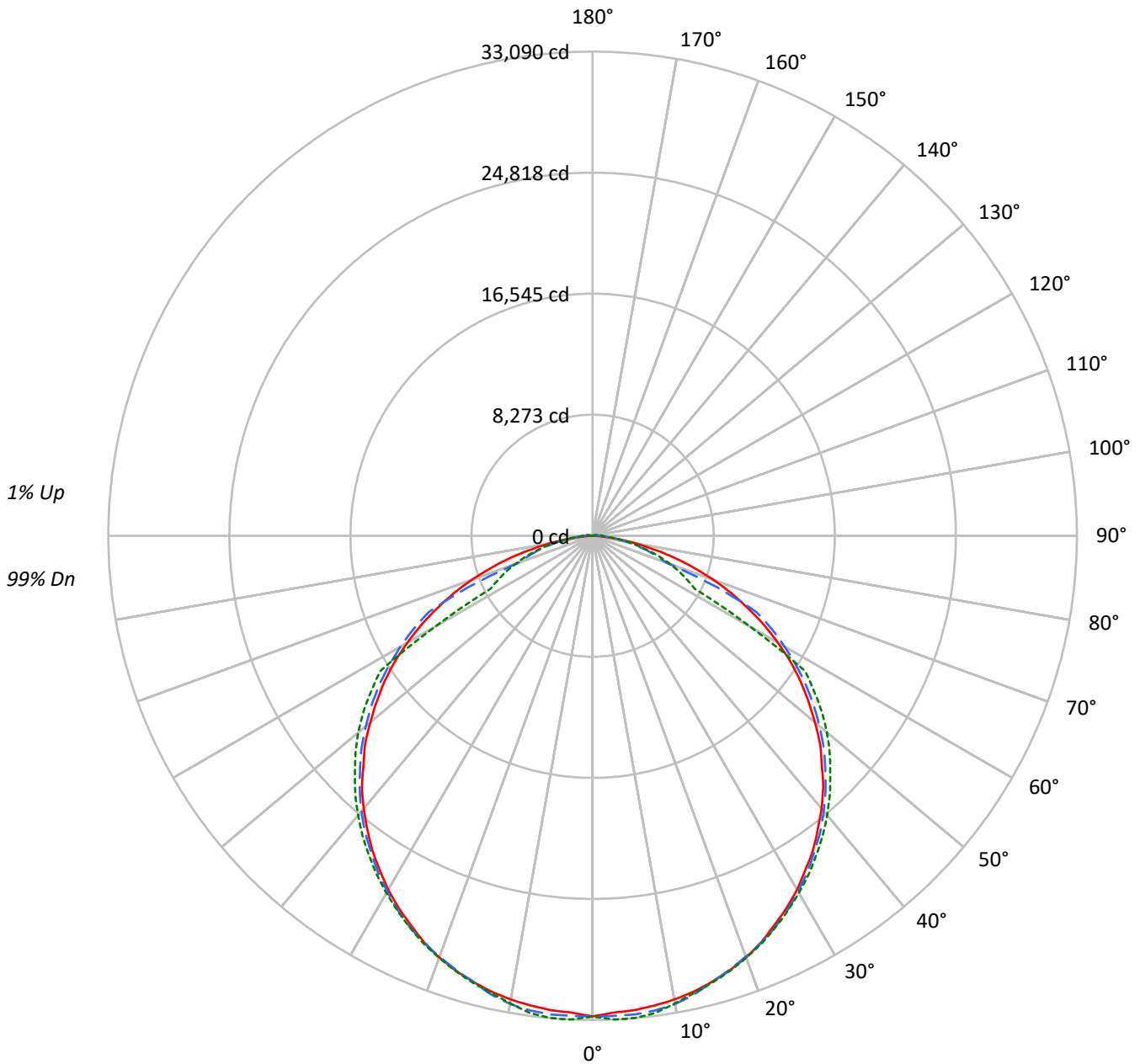
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 92227.0 lumens
Efficiency: N/A
Efficacy: 174.3 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): 529
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°	51950	51950	51950
5°	51663	52130	52523
10°	51677	52168	52103
15°	51668	51659	51772
20°	51598	51520	51646
25°	51245	51506	51546
30°	51008	51271	51471
35°	50677	50955	51434
40°	50240	50716	51465
45°	49515	50263	51359
50°	48769	49763	51407
55°	47836	49076	50841
60°	46233	47874	39580
65°	43742	46286	26638
70°	40458	24572	25853
75°	35290	23350	24688
80°	27138	21420	22625
85°	13698	21647	22168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3120.8	3.4
10°-20°	8935.6	9.7
20°-30°	13596.3	14.7
30°-40°	16531.2	17.9
40°-50°	17381.7	18.8
50°-60°	15871.6	17.2
60°-70°	10174.5	11.0
70°-80°	4806.3	5.2
80°-90°	1332.7	1.4
90°-100°	352.9	0.4
100°-110°	96.7	0.1
110°-120°	26.8	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°	25652.6	27.8
0°-40°	42183.8	45.7
0°-60°	75437.1	81.8
0°-90°	91750.6	99.5
90°-120°	476.4	0.5
90°-150°	476.4	0.5
90°-180°	476.0	0.5
0°-180°	92227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32849	32849	32849	32849	32849	
5°	32543	32670	32837	33016	33085	###
15°	31558	31794	31552	31598	31621	8909
25°	29367	29413	29517	29563	29540	13551
35°	26249	26094	26393	26716	26641	16404
45°	22139	22099	22474	23004	22964	17112
55°	17349	17217	17799	18393	18439	15473
65°	11689	11689	12369	7095	7118	11589
75°	5775	5885	3821	4023	4040	6088
85°	755	957	1193	1291	1222	1116
90°	0	323	530	628	617	33
95°	17	167	381	513	513	9
105°	29	64	92	92	87	29
115°	29	40	57	40	6	20
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°	32848.9	32848.9	32848.9	32848.9	<i>32848.9</i>
2.5°	<i>32618.2</i>	<i>32728.1</i>	<i>32848.9</i>	<i>33004.5</i>	<i>33090.5</i>
5°	32543.2	32670.1	32837.3	33016.1	<i>33085.0</i>
7.5°	32382.0	32560.2	32722.0	32848.9	<i>32889.2</i>
10°	32180.1	32393.6	32485.8	32474.2	<i>32445.5</i>
12.5°	31909.1	32134.3	32105.6	31972.6	<i>31995.8</i>
15°	31557.6	31793.8	31552.1	31597.9	<i>31621.1</i>
17.5°	31142.6	31373.3	31090.8	31182.9	<i>31189.0</i>
20°	30658.7	30831.4	30612.3	30687.4	<i>30687.4</i>
22.5°	30076.5	30197.4	30105.2	30157.1	<i>30168.7</i>
25°	29367.4	29413.2	29516.9	29563.3	<i>29540.1</i>
27.5°	28687.6	28629.6	28831.6	28940.9	<i>28882.9</i>
30°	27932.1	27840.0	28076.2	28255.0	<i>28186.0</i>
32.5°	27067.4	27010.1	27281.0	27494.0	<i>27453.7</i>
35°	26249.1	26093.5	26393.1	26715.9	<i>26640.9</i>
37.5°	25280.6	25188.5	25528.4	25868.9	<i>25828.6</i>
40°	24335.4	24179.7	24566.0	24969.4	<i>24929.1</i>
42.5°	23321.1	23136.2	23557.3	24041.8	<i>23995.4</i>
45°	22139.1	22098.8	22473.5	23003.8	<i>22963.5</i>
47.5°	21090.7	20888.7	21412.9	21926.1	<i>21972.5</i>
50°	19822.0	19747.5	20226.0	20848.4	<i>20894.2</i>
52.5°	18583.2	18531.3	19032.3	19660.9	<i>19741.4</i>
55°	17349.3	17216.8	17799.0	18392.8	<i>18439.2</i>
57.5°	16029.9	15891.4	16485.2	17130.8	<i>17228.4</i>
60°	14617.2	14484.8	15135.9	15735.8	<i>12513.7</i>
62.5°	13205.1	13112.9	13793.4	9770.0	<i>7874.0</i>
65°	11689.2	11689.2	12369.1	7095.3	<i>7118.5</i>
67.5°	10271.6	10179.5	9222.6	6374.6	<i>6374.6</i>
70°	8749.7	8784.5	5314.0	5585.6	<i>5591.1</i>
72.5°	7222.3	7349.2	4588.4	4806.9	<i>4818.5</i>
75°	5775.4	5885.2	3821.4	4023.3	<i>4040.4</i>
77.5°	4242.4	3262.4	3072.0	3228.2	<i>3233.7</i>
80°	2979.8	2057.7	2351.9	2501.4	<i>2484.3</i>
82.5°	1740.4	1440.8	1723.3	1833.2	<i>1827.1</i>
85°	754.9	956.9	1193.0	1291.3	<i>1221.7</i>
87.5°	241.7	593.8	743.3	801.3	<i>795.1</i>
90°	0.0	322.8	530.3	627.9	<i>617.0</i>
92.5°	0.0	253.3	461.3	576.7	<i>582.2</i>
95°	17.1	167.2	380.8	513.2	<i>513.2</i>
97.5°	11.6	120.8	270.9	403.4	<i>415.0</i>
100°	11.6	97.6	178.8	288.0	<i>294.1</i>
102.5°	28.7	80.6	109.2	184.3	<i>190.4</i>
105°	28.7	63.5	92.1	92.1	<i>86.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.8	46.4	63.5	46.4	5.5
115°	28.7	40.3	57.4	40.3	5.5
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°	28.7	57.4	80.6	51.9	17.1
110°	34.8	51.9	69.0	46.4	5.5



(END OF REPORT)