

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: P830848

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830848  
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-90SE-N-UNV-L735-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

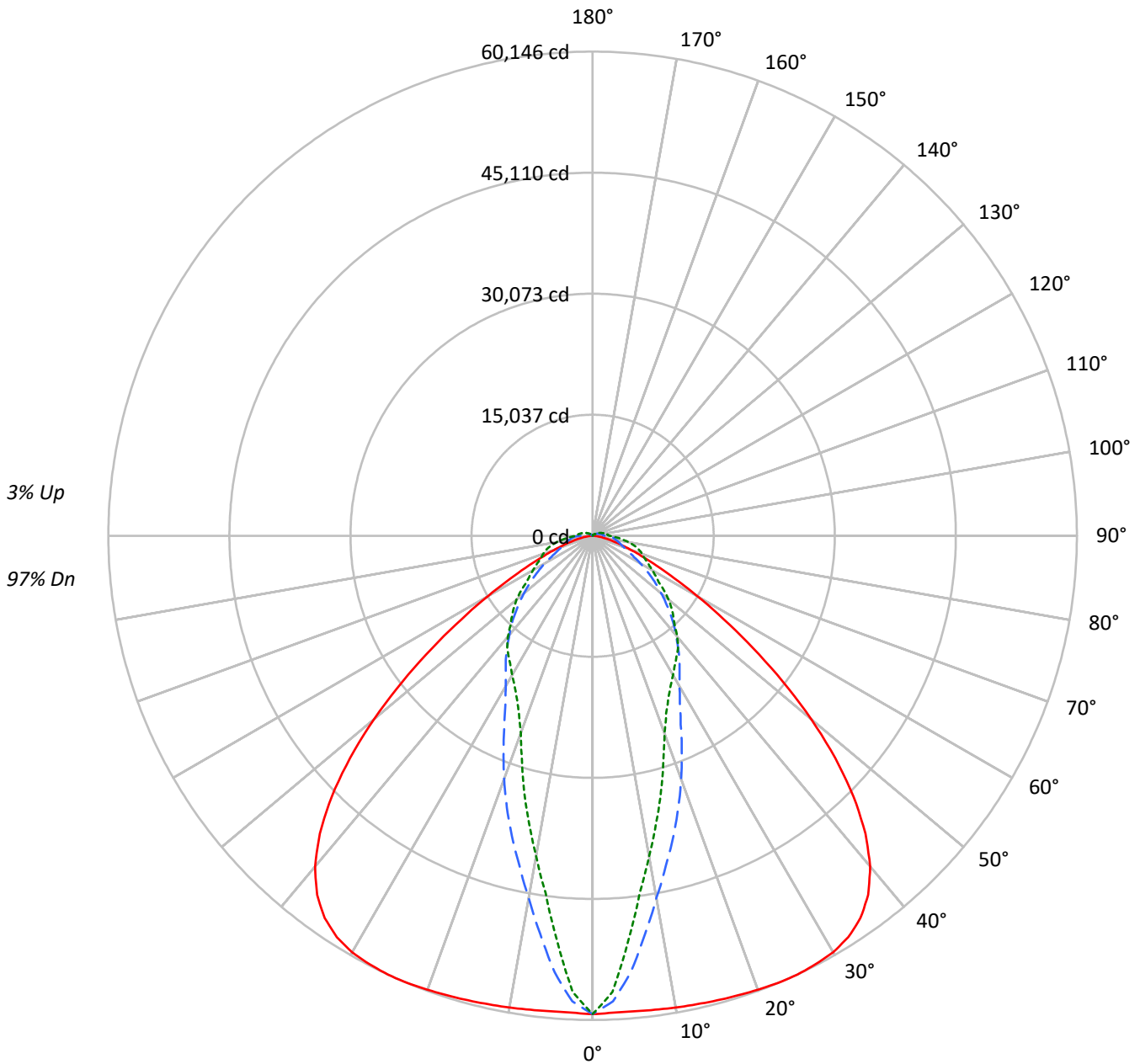
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 87693.0 lumens  
Efficiency: N/A  
Efficacy: 165.8 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): 529  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	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	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	93966	93966	93966
5°	93775	85611	79612
10°	94833	72146	63878
15°	96685	61730	52463
20°	99401	52220	42462
25°	102839	43245	37231
30°	106394	37275	34613
35°	108607	33990	33004
40°	106749	30722	31339
45°	98204	27783	29043
50°	82854	24565	27291
55°	62957	21537	24319
60°	44119	18493	23321
65°	29677	15950	22881
70°	20268	15000	24075
75°	14065	15515	25833
80°	9682	17265	26777
85°	5664	21792	28462



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5001.6	5.7
10°-20°	11766.1	13.4
20°-30°	14748.6	16.8
30°-40°	15650.0	17.8
40°-50°	14150.1	16.1
50°-60°	10259.7	11.7
60°-70°	6438.5	7.3
70°-80°	4260.8	4.9
80°-90°	2454.7	2.8
90°-100°	1189.2	1.4
100°-110°	820.8	0.9
110°-120°	506.5	0.6
120°-130°	245.3	0.3
130°-140°	112.8	0.1
140°-150°	61.6	0.1
150°-160°	26.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	31516.3	35.9
0°-40°	47166.3	53.8
0°-60°	71576.1	81.6
0°-90°	84729.9	96.6
90°-120°	2516.5	2.9
90°-150°	2936.3	3.3
90°-180°	2963.0	3.4
0°-180°	87693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	59417	59417	59417	59417	59417	
5°	59298	57777	54384	51862	50555	###
15°	59750	48700	38680	34399	32838	16945
25°	60146	37656	25900	22987	22258	27787
35°	57992	25034	18797	18209	18203	36050
45°	45845	15856	13623	13951	14188	34924
55°	24271	9828	8890	9642	9987	21930
65°	8680	5700	5146	6594	7329	9033
75°	2680	3071	3455	5367	5689	2988
85°	469	1272	2528	3517	3229	563
90°	0	532	1465	2064	2081	30
95°	23	373	1289	1753	1832	20
105°	45	249	939	1244	1278	46
115°	62	175	633	792	809	61
125°	68	90	322	407	402	59
135°	56	68	141	220	220	44
145°	68	74	85	130	124	41
155°	68	85	90	96	85	21
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-90SE-N-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	59416.7	59416.7	59416.7	59416.7	59416.7
2.5°	59292.3	58953.0	57895.5	57250.8	56708.0
5°	59297.9	57776.7	54383.8	51861.7	50555.4
7.5°	59382.8	56001.1	49888.1	46206.7	44770.3
10°	59512.8	53801.3	45692.1	41767.5	40427.3
12.5°	59609.0	51324.4	41999.4	37967.4	36497.1
15°	59750.3	48700.5	38679.9	34399.1	32838.4
17.5°	59880.4	46229.3	35400.1	30927.0	29190.9
20°	60010.5	43565.8	32120.2	27511.4	26080.7
22.5°	60134.9	40755.3	28919.5	24859.2	23880.9
25°	60146.2	37656.4	25899.7	22987.4	22257.9
27.5°	59999.1	34444.4	23451.1	21421.0	20968.6
30°	59744.7	31328.5	21551.1	20290.0	19967.7
32.5°	59111.3	28150.4	20080.8	19198.6	19012.0
35°	57991.6	25034.5	18797.1	18209.0	18203.3
37.5°	56227.3	22269.2	17406.0	17304.2	17428.6
40°	53620.3	19848.9	16088.4	16359.8	16359.8
42.5°	50142.5	17745.3	14895.2	15172.3	15098.7
45°	45844.8	15856.5	13622.8	13950.8	14188.3
47.5°	40862.8	14194.0	12322.2	12955.5	13283.5
50°	35445.3	12610.6	11134.6	11943.3	12316.5
52.5°	29767.7	11145.9	9975.4	10902.8	11202.5
55°	24271.1	9828.3	8889.6	9641.7	9986.7
57.5°	19294.7	8572.9	7826.5	8539.0	9251.5
60°	15013.9	7492.8	6825.5	7843.4	8556.0
62.5°	11468.3	6531.5	5886.8	7193.1	7905.6
65°	8680.4	5700.2	5146.0	6593.7	7328.8
67.5°	6542.8	4982.0	4569.2	6158.3	6876.4
70°	4914.2	4286.5	4105.5	5886.8	6531.5
72.5°	3630.5	3647.5	3737.9	5649.3	6141.3
75°	2680.5	3070.6	3455.2	5366.6	5688.9
77.5°	1917.0	2544.7	3200.7	5027.3	5140.4
80°	1328.9	2075.4	2934.9	4580.5	4484.4
82.5°	831.3	1662.6	2697.4	4088.5	3822.8
85°	469.4	1272.4	2527.8	3517.4	3229.0
87.5°	209.2	950.0	2211.1	2742.7	2561.7
90°	0.0	531.6	1464.6	2064.1	2081.0
92.5°	11.3	441.1	1351.5	1888.8	1945.3
95°	22.6	373.2	1289.3	1753.0	1832.2
97.5°	28.3	328.0	1210.2	1628.6	1696.5
100°	33.9	294.1	1114.0	1498.6	1555.1
102.5°	39.6	271.4	1023.5	1362.8	1408.1
105°	45.2	248.8	938.7	1244.1	1278.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	56.5	192.3	706.9	893.5	921.8
115°	62.2	175.3	633.4	791.7	808.7
117.5°	67.9	152.7	554.2	695.6	701.2
120°	67.9	135.7	475.0	593.8	593.8
122.5°	67.9	113.1	395.8	492.0	486.3
125°	67.9	90.5	322.3	407.2	401.5
127.5°	62.2	73.5	260.1	339.3	333.6
130°	62.2	73.5	209.2	288.4	288.4
132.5°	56.5	67.9	169.6	248.8	248.8
135°	56.5	67.9	141.4	220.5	220.5
137.5°	56.5	73.5	118.8	192.3	192.3
140°	56.5	67.9	101.8	169.6	169.6
142.5°	62.2	67.9	90.5	147.0	147.0
145°	67.9	73.5	84.8	130.1	124.4
147.5°	67.9	79.2	84.8	113.1	107.4
150°	67.9	84.8	84.8	101.8	96.1
152.5°	67.9	84.8	84.8	96.1	90.5
155°	67.9	84.8	90.5	96.1	84.8
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°	45.2	231.9	859.6	1114.0	1153.6
110°	50.9	209.2	786.0	995.3	1034.9



(END OF REPORT)