

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: P830834

Luminaire Tested: **OHBL-90SE-MCL-UNV-L950-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830834  
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-90SE-MCL-UNV-L950-CD  
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

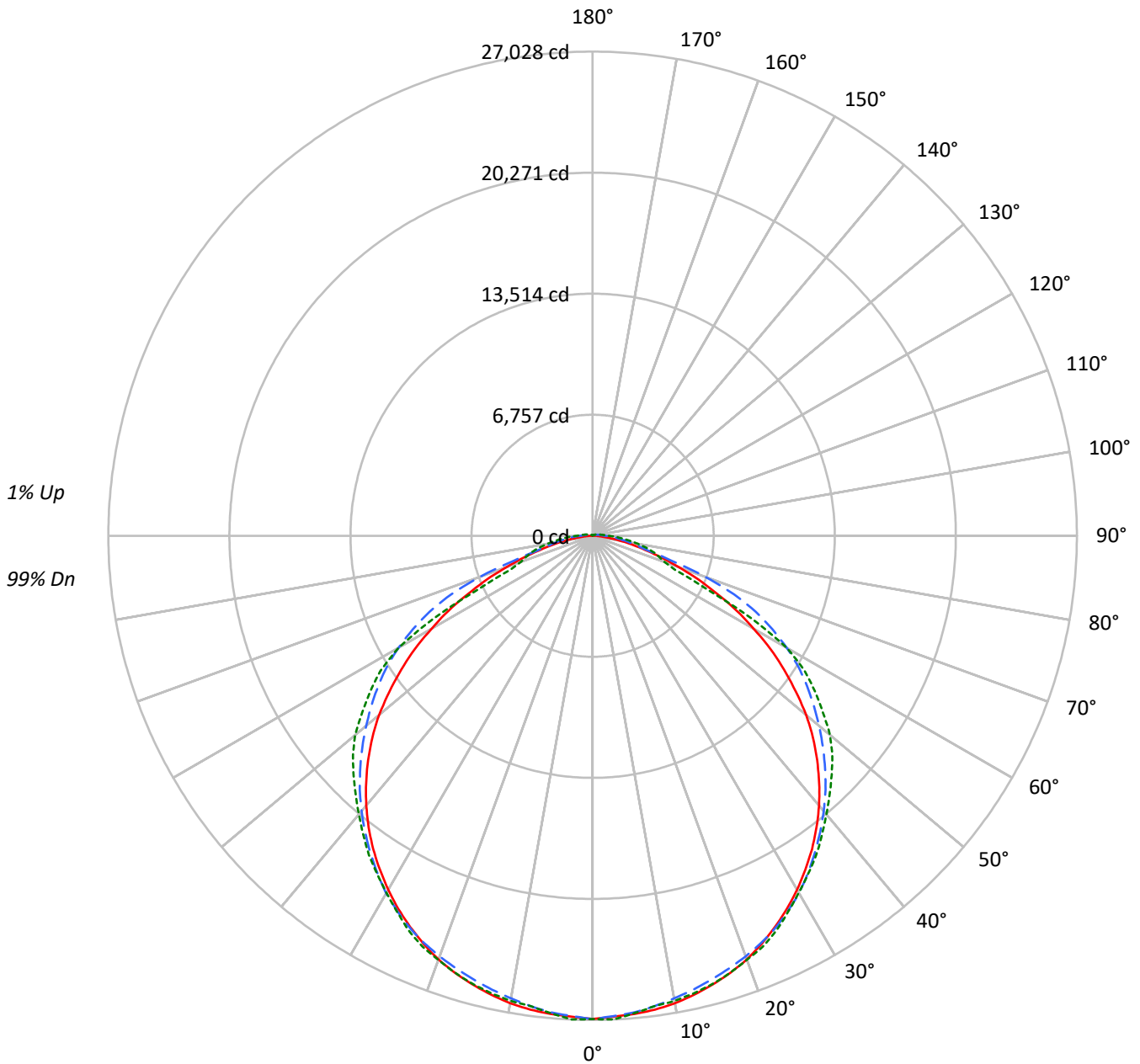
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 76239.0 lumens  
Efficiency: N/A  
Efficacy: 144.1 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): 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									
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°	42658	42658	42658
5°	42379	42038	42126
10°	42224	41401	41659
15°	41956	40925	41380
20°	41688	40625	41013
25°	41185	40323	40650
30°	40638	39847	39881
35°	39983	39091	39457
40°	39133	38311	38880
45°	37955	37408	38624
50°	36357	36380	38318
55°	33820	35368	36888
60°	30497	33888	34103
65°	26161	31141	21613
70°	21072	24310	15670
75°	15798	14431	15904
80°	10997	11999	15184
85°	6258	10994	14233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2543.3	3.3
10°-20°	7293.1	9.6
20°-30°	11138.9	14.6
30°-40°	13515.3	17.7
40°-50°	14165.3	18.6
50°-60°	12835.9	16.8
60°-70°	8606.0	11.3
70°-80°	3864.5	5.1
80°-90°	1402.4	1.8
90°-100°	422.1	0.6
100°-110°	199.2	0.3
110°-120°	99.8	0.1
120°-130°	55.1	0.1
130°-140°	37.9	0.0
140°-150°	25.5	0.0
150°-160°	18.9	0.0
160°-170°	12.2	0.0
170°-180°	3.9	0.0
0°-30°	20975.3	27.5
0°-40°	34490.6	45.2
0°-60°	61491.8	80.7
0°-90°	75364.6	98.9
90°-120°	721.1	0.9
90°-150°	839.5	1.1
90°-180°	874.0	1.1
0°-180°	76239.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26973	26973	26973	26973	26973	
5°	26798	26892	26704	26786	26751	###
15°	25928	25827	25644	25870	25901	7321
25°	24087	23982	24150	24372	24302	11103
35°	21349	21400	21618	21849	21763	13344
45°	17718	18007	18342	18810	18869	13649
55°	13038	13666	14598	15183	15148	11638
65°	7652	8849	10047	8479	6923	7624
75°	3011	4368	3214	3288	3502	3290
85°	519	994	1275	1541	1615	633
90°	4	332	659	827	866	31
95°	4	207	452	550	566	5
105°	16	90	222	269	281	18
115°	31	47	113	144	152	29
125°	27	31	70	82	86	27
135°	35	39	43	62	66	28
145°	35	39	39	43	47	23
155°	39	43	43	43	39	18
165°	43	43	43	43	43	12
175°	43	43	39	35	35	4
180°	39	39	39	39	39	



TEST NUMBER: P830834

CATALOG NUMBER: OHBL-90SE-MCL-UNV-L950-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26973.4	26973.4	26973.4	26973.4	26973.4
2.5°	26864.2	26977.3	26836.9	26989.0	27028.0
5°	26797.9	26891.5	26704.3	26786.2	26751.1
7.5°	26677.0	26708.2	26485.9	26552.2	26482.0
10°	26497.6	26482.0	26220.7	26349.4	26365.0
12.5°	26232.4	26185.6	25951.6	26146.6	26150.5
15°	25928.2	25826.8	25643.5	25869.7	25900.9
17.5°	25577.2	25444.6	25323.7	25616.2	25569.4
20°	25167.7	25011.6	24988.2	25308.1	25191.1
22.5°	24660.6	24539.7	24594.3	24898.5	24824.4
25°	24087.3	23982.0	24149.7	24372.0	24301.8
27.5°	23482.8	23420.4	23611.5	23783.1	23646.6
30°	22819.8	22784.7	23038.2	23178.6	23007.0
32.5°	22098.2	22109.9	22351.7	22542.9	22382.9
35°	21349.4	21400.1	21618.5	21848.6	21762.8
37.5°	20526.5	20639.6	20858.0	21119.3	21029.6
40°	19656.7	19820.6	20062.4	20378.3	20296.4
42.5°	18716.8	18923.5	19235.5	19586.5	19578.7
45°	17718.4	18007.0	18342.4	18810.4	18868.9
47.5°	16680.9	17004.6	17429.8	18053.8	18143.5
50°	15553.8	15959.4	16489.8	17238.7	17293.3
52.5°	14297.9	14851.8	15553.8	16271.4	16205.1
55°	13038.2	13666.1	14598.3	15183.3	15148.2
57.5°	11782.3	12488.3	13619.3	14036.6	14032.7
60°	10378.3	11271.4	12507.8	12823.7	12511.7
62.5°	9079.5	10039.0	11322.1	11092.0	10023.4
65°	7652.1	8849.4	10046.8	8478.9	6922.8
67.5°	6384.5	7632.6	8533.5	5807.3	4972.7
70°	5109.2	6485.9	6653.7	4309.7	4251.2
72.5°	3978.2	5444.6	4590.5	3689.5	3876.7
75°	3010.9	4368.2	3213.7	3287.8	3502.3
77.5°	2195.8	3354.1	2500.0	2882.2	3057.7
80°	1509.4	2375.2	2039.8	2422.0	2542.9
82.5°	947.7	1567.9	1634.2	1950.1	2074.9
85°	518.7	994.5	1275.3	1540.6	1614.7
87.5°	214.5	600.6	975.0	1189.5	1251.9
90°	3.9	331.5	659.1	826.8	865.8
92.5°	3.9	253.5	538.2	666.9	694.2
95°	3.9	206.7	452.4	549.9	565.5
97.5°	7.8	163.8	378.3	456.3	471.9
100°	11.7	136.5	315.9	382.2	393.9
102.5°	15.6	109.2	265.2	319.8	331.5
105°	15.6	89.7	222.3	269.1	280.8



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CATALOG NUMBER: OHBL-90SE-MCL-UNV-L950-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	27.3	54.6	132.6	167.7	175.5
115°	31.2	46.8	113.1	144.3	152.1
117.5°	31.2	39.0	97.5	120.9	128.7
120°	31.2	35.1	85.8	105.3	109.2
122.5°	31.2	31.2	74.1	93.6	97.5
125°	27.3	31.2	70.2	81.9	85.8
127.5°	31.2	31.2	62.4	74.1	78.0
130°	31.2	35.1	54.6	70.2	70.2
132.5°	35.1	39.0	50.7	66.3	66.3
135°	35.1	39.0	42.9	62.4	66.3
137.5°	39.0	39.0	39.0	58.5	62.4
140°	39.0	39.0	35.1	50.7	54.6
142.5°	35.1	39.0	35.1	46.8	50.7
145°	35.1	39.0	39.0	42.9	46.8
147.5°	39.0	39.0	39.0	39.0	42.9
150°	39.0	39.0	39.0	39.0	39.0
152.5°	39.0	39.0	39.0	39.0	39.0
155°	39.0	42.9	42.9	42.9	39.0
157.5°	39.0	42.9	42.9	42.9	42.9
160°	39.0	42.9	42.9	42.9	42.9
162.5°	42.9	42.9	42.9	42.9	42.9
165°	42.9	42.9	42.9	42.9	42.9
167.5°	42.9	46.8	42.9	42.9	42.9
170°	42.9	42.9	42.9	39.0	39.0
172.5°	42.9	42.9	42.9	39.0	39.0
175°	42.9	42.9	39.0	35.1	35.1
177.5°	46.8	42.9	39.0	35.1	31.2
180°	39.0	39.0	39.0	39.0	39.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	19.5	74.1	191.1	230.1	237.9
110°	23.4	62.4	159.9	195.0	202.8



(END OF REPORT)