

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: P828592

Luminaire Tested: **OHBL-18HE-A-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828592  
REPORT IS A COMBINATION OF REPORTS P826155 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-A-UNV-L950-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

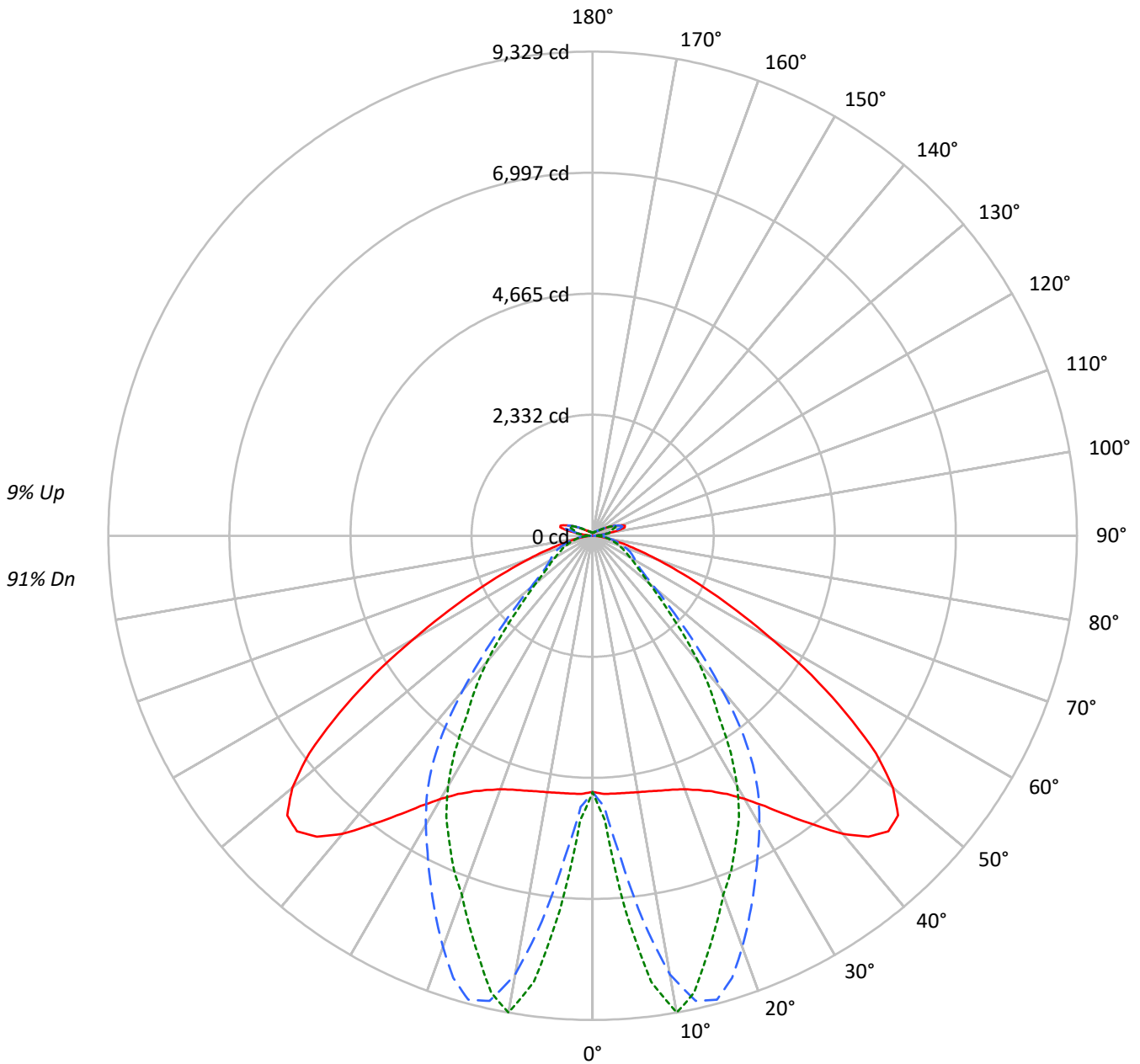
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17397.5 lumens  
Efficiency: N/A  
Efficacy: 150.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 115.3  
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

TEST NUMBER: P828592

CATALOG NUMBER: OHBL-18HE-A-UNV-L950-CD-UPL18

### Luminous Intensity Polar Plot





TEST NUMBER: P828592

CATALOG NUMBER: OHBL-18HE-A-UNV-L950-CD-UPL18

**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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	70																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	54	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	43	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

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

	0°	45°	90°
0°	8431	8431	8431
5°	8475	10605	12360
10°	8550	14620	16054
15°	8754	15927	14735
20°	9116	14778	13168
25°	9781	13290	12045
30°	10906	11967	10711
35°	12821	10474	8535
40°	15416	7977	6793
45°	17684	5434	4835
50°	17928	3728	3576
55°	15518	2934	2921
60°	11592	2745	2628
65°	7946	2754	2490
70°	5080	2656	2411
75°	3055	2458	2307
80°	1797	2161	2380
85°	865	1855	2207



TEST NUMBER: P828592

CATALOG NUMBER: OHBL-18HE-A-UNV-L950-CD-UPL18

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.5	3.7
10°-20°	2274.7	13.1
20°-30°	3351.8	19.3
30°-40°	3522.3	20.2
40°-50°	2695.2	15.5
50°-60°	1627.4	9.4
60°-70°	993.1	5.7
70°-80°	542.1	3.1
80°-90°	194.2	1.1
90°-100°	148.9	0.9
100°-110°	517.0	3.0
110°-120°	444.2	2.6
120°-130°	213.3	1.2
130°-140°	106.6	0.6
140°-150°	61.9	0.4
150°-160°	36.1	0.2
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	6271.0	36.0
0°-40°	9793.2	56.3
0°-60°	14115.8	81.1
0°-90°	15845.2	91.1
90°-120°	1110.0	6.4
90°-150°	1491.8	8.6
90°-180°	1552.0	8.9
0°-180°	17397.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4936	4936	4936	4936	4936	
5°	4986	5349	6240	6968	7237	477
15°	5083	7917	9253	8634	8432	1445
25°	5432	9189	7387	6688	6523	2539
35°	6580	7358	5382	4482	4220	4174
45°	8053	4199	2479	2181	2090	6085
55°	5956	1424	1128	1046	1043	5263
65°	2388	901	830	710	674	2446
75°	636	560	514	424	407	731
85°	95	174	205	187	169	117
90°	4	22	30	39	44	8
95°	33	71	112	145	166	104
105°	644	638	544	383	354	611
115°	446	451	450	445	444	450
125°	217	228	234	233	231	204
135°	129	131	136	137	138	102
145°	94	96	98	99	99	59
155°	75	76	77	78	78	35
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



TEST NUMBER: P828592

CATALOG NUMBER: OHBL-18HE-A-UNV-L950-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.5	4936.5	4936.5	4936.5	4936.5
2.5°	4977.0	5027.8	5228.1	5435.9	5486.5
5°	4986.1	5349.3	6240.4	6967.9	7236.8
7.5°	4996.7	5870.3	7494.6	8385.4	8670.5
10°	5016.8	6529.1	8581.4	9220.9	9328.7
12.5°	5041.8	7227.1	9179.4	9156.1	9020.2
15°	5083.3	7917.3	9253.1	8634.5	8431.5
17.5°	5126.9	8501.4	8931.8	8066.8	7890.0
20°	5197.8	8934.9	8432.0	7562.2	7361.2
22.5°	5300.0	9173.3	7907.9	7105.7	6974.7
25°	5431.9	9188.7	7387.3	6688.1	6523.0
27.5°	5608.7	8975.6	6888.3	6278.9	6104.5
30°	5849.2	8567.4	6424.8	5785.5	5569.1
32.5°	6175.8	7980.0	5946.7	5189.7	4947.1
35°	6579.7	7358.5	5381.8	4481.9	4219.8
37.5°	7020.4	6668.4	4696.1	3855.0	3702.4
40°	7494.6	5957.3	3883.5	3268.5	3159.2
42.5°	7864.6	5184.2	3128.5	2716.1	2600.0
45°	8053.2	4198.8	2479.0	2181.4	2089.8
47.5°	7979.8	3259.4	1965.3	1733.3	1705.8
50°	7551.1	2406.7	1573.3	1427.8	1416.4
52.5°	6881.0	1793.8	1299.6	1209.6	1189.9
55°	5955.6	1423.8	1128.5	1045.9	1042.8
57.5°	5000.3	1209.6	1024.4	960.4	938.2
60°	3981.2	1078.5	945.4	873.2	828.1
62.5°	3120.7	986.9	887.4	789.4	747.3
65°	2387.7	901.4	830.2	710.4	674.3
67.5°	1779.8	819.9	760.4	627.5	606.3
70°	1296.8	736.2	680.8	558.0	541.3
72.5°	924.2	652.9	601.2	492.8	474.4
75°	635.7	560.5	514.2	424.2	407.1
77.5°	428.9	466.4	428.5	362.2	355.0
80°	286.4	369.9	346.6	306.9	302.5
82.5°	173.8	268.4	273.5	249.6	237.5
85°	94.6	173.8	204.9	186.7	169.4
87.5°	37.0	96.3	141.2	126.8	119.4
90°	3.5	21.7	29.6	39.1	43.5
92.5°	11.3	28.7	47.8	66.1	73.0
95°	33.0	71.3	112.2	145.2	166.1
97.5°	169.5	185.2	206.9	245.2	259.1
100°	349.5	366.9	307.8	322.6	327.8
102.5°	546.9	546.0	394.7	356.5	351.3
105°	644.3	638.2	544.3	383.4	353.9



TEST NUMBER: P828592

CATALOG NUMBER: OHBL-18HE-A-UNV-L950-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	523.4	526.9	516.4	502.5	480.8
115°	446.0	451.2	450.4	445.2	444.3
117.5°	379.9	382.6	384.3	382.6	383.4
120°	317.3	323.4	326.9	324.3	322.6
122.5°	265.2	273.0	277.4	274.7	273.0
125°	217.4	227.8	233.9	233.0	231.3
127.5°	184.3	192.1	200.0	199.1	197.4
130°	160.0	166.1	171.3	172.2	173.0
132.5°	143.5	146.1	151.3	152.2	153.9
135°	128.7	131.3	135.6	137.4	138.2
137.5°	117.4	120.0	123.5	125.2	126.1
140°	107.8	110.4	113.0	114.8	115.6
142.5°	100.0	102.6	105.2	106.1	106.9
145°	93.9	95.6	98.2	99.1	99.1
147.5°	87.8	89.6	91.3	93.0	93.0
150°	82.6	84.3	86.1	86.9	87.8
152.5°	79.1	80.0	81.7	82.6	82.6
155°	74.8	76.5	77.4	78.2	78.2
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	650.3	650.3	599.9	466.0	390.4
110°	595.6	602.5	576.4	524.3	464.3



(END OF REPORT)