

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: P828613

Luminaire Tested: **OHBL-18SE-MCL-UNV-L950-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828613  
REPORT IS A COMBINATION OF REPORTS P826162 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-18SE-MCL-UNV-L950-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

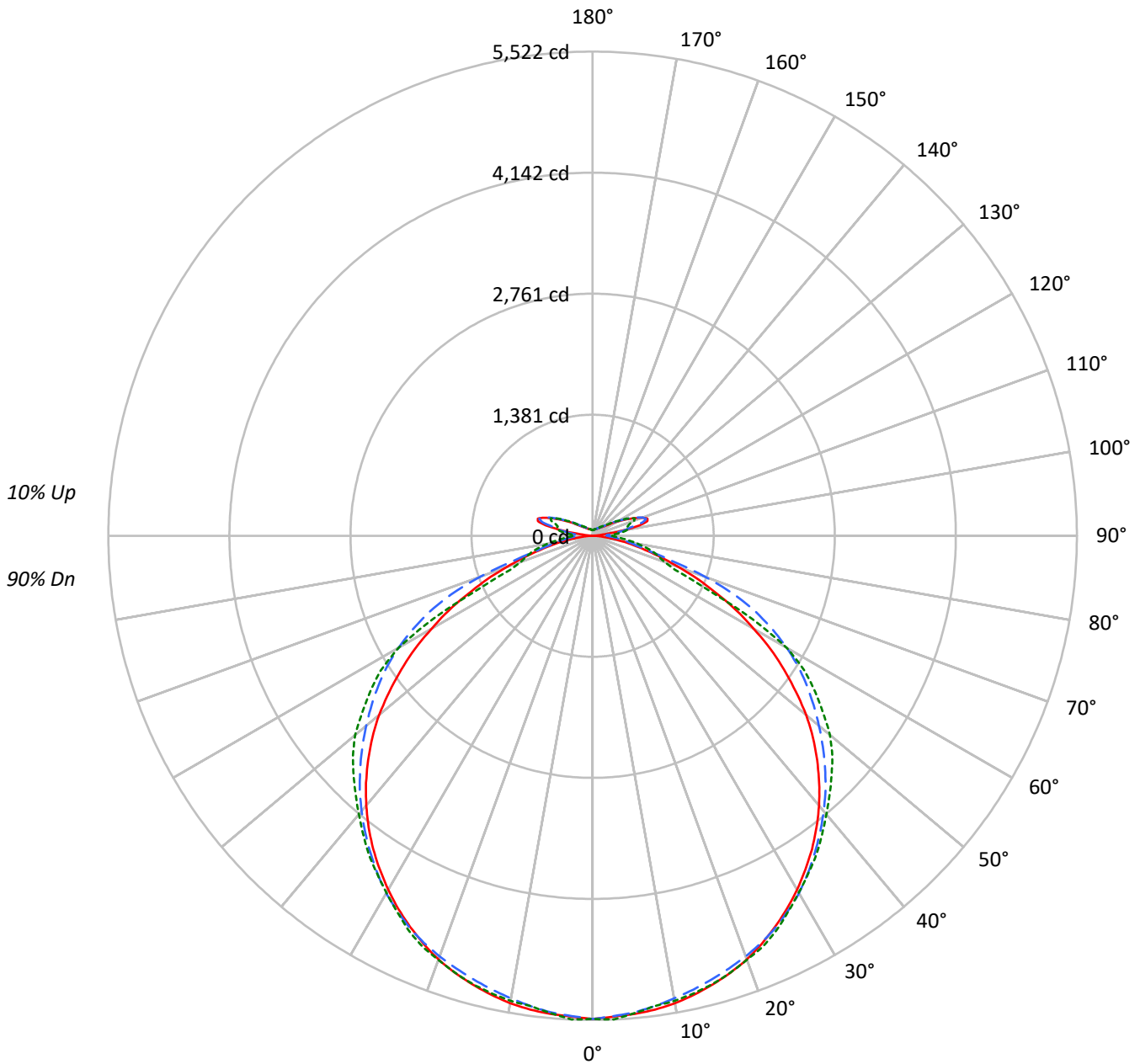
Lumens per Lamp: N/A  
Luminaire Lumens: 17132.3 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 117.3  
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: P828613

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L950-CD-UPL18

### Luminous Intensity Polar Plot





TEST NUMBER: P828613

CATALOG NUMBER: OHBL-18SE-MCL-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	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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

	0°	45°	90°
0°	9412	9412	9412
5°	9306	9272	9335
10°	9226	9127	9270
15°	9122	9018	9248
20°	9018	8948	9207
25°	8861	8876	9168
30°	8693	8767	9040
35°	8499	8596	8993
40°	8261	8419	8916
45°	7949	8215	8918
50°	7544	7983	8920
55°	6941	7753	8670
60°	6173	7420	8113
65°	5202	6808	5222
70°	4089	5304	3869
75°	2956	3139	4055
80°	1936	2598	4088
85°	969	2359	4299



TEST NUMBER: P828613

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L950-CD-UPL18

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.6	3.0
10°-20°	1490.0	8.7
20°-30°	2275.7	13.3
30°-40°	2761.2	16.1
40°-50°	2894.1	16.9
50°-60°	2622.4	15.3
60°-70°	1758.2	10.3
70°-80°	789.5	4.6
80°-90°	290.4	1.7
90°-100°	235.1	1.4
100°-110°	557.7	3.3
110°-120°	464.6	2.7
120°-130°	224.6	1.3
130°-140°	114.3	0.7
140°-150°	67.1	0.4
150°-160°	40.0	0.2
160°-170°	21.2	0.1
170°-180°	6.5	0.0
0°-30°	4285.4	25.0
0°-40°	7046.6	41.1
0°-60°	12563.1	73.3
0°-90°	15401.3	89.9
90°-120°	1257.4	7.3
90°-150°	1663.3	9.7
90°-180°	1731.0	10.1
0°-180°	17132.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5511	5511	5511	5511	5511	
5°	5475	5494	5456	5473	5465	521
15°	5297	5277	5239	5285	5292	1496
25°	4921	4900	4934	4979	4965	2268
35°	4362	4372	4417	4464	4446	2726
45°	3620	3679	3748	3843	3855	2789
55°	2664	2792	2982	3102	3095	2378
65°	1563	1808	2053	1732	1414	1558
75°	615	892	657	672	716	672
85°	106	203	261	315	330	129
90°	4	90	164	208	220	9
95°	34	114	205	258	282	105
105°	648	656	590	438	411	615
115°	452	461	474	475	475	456
125°	223	234	248	250	249	210
135°	136	139	144	150	152	108
145°	101	104	106	108	109	64
155°	83	85	86	87	86	39
165°	73	74	74	75	75	21
175°	67	67	67	66	66	6
180°	66	66	66	66	66	



TEST NUMBER: P828613

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L950-CD-UPL18

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5510.8	5510.8	5510.8	5510.8	5510.8
2.5°	5488.5	5511.7	5483.0	5514.0	5522.0
5°	5475.0	5494.1	5455.9	5472.6	5465.4
7.5°	5450.3	5456.6	5411.2	5424.8	5410.5
10°	5413.6	5410.5	5357.1	5383.3	5386.6
12.5°	5359.4	5349.9	5302.0	5341.9	5342.7
15°	5297.3	5276.6	5239.1	5285.4	5291.7
17.5°	5225.5	5198.5	5173.8	5233.5	5224.0
20°	5141.9	5110.1	5105.3	5170.6	5146.7
22.5°	5038.3	5013.7	5024.8	5086.9	5071.8
25°	4921.2	4899.7	4933.9	4979.4	4965.0
27.5°	4797.7	4784.9	4823.9	4859.1	4831.2
30°	4662.2	4655.0	4706.8	4735.5	4700.5
32.5°	4514.8	4517.2	4566.6	4605.6	4573.0
35°	4361.8	4372.2	4416.8	4463.8	4446.3
37.5°	4193.7	4216.8	4261.4	4314.8	4296.4
40°	4016.0	4049.4	4098.8	4163.4	4146.6
42.5°	3824.0	3866.2	3930.0	4001.6	4000.1
45°	3619.9	3679.0	3747.5	3843.1	3855.0
47.5°	3408.0	3474.1	3561.0	3688.5	3706.8
50°	3177.7	3260.6	3369.0	3521.9	3533.2
52.5°	2921.2	3034.3	3177.7	3324.3	3310.8
55°	2663.8	2792.0	2982.5	3102.0	3094.9
57.5°	2407.2	2551.5	2782.5	2867.8	2867.0
60°	2120.3	2302.8	2555.4	2620.0	2556.3
62.5°	1855.0	2051.0	2313.2	2266.2	2047.8
65°	1563.3	1808.0	2052.6	1732.3	1414.3
67.5°	1304.4	1559.3	1743.4	1186.4	1015.9
70°	1043.9	1325.1	1359.4	880.5	868.6
72.5°	812.8	1112.4	937.9	753.8	792.1
75°	615.1	892.5	656.6	671.7	715.6
77.5°	448.6	685.3	510.8	588.9	624.7
80°	308.4	485.2	416.7	494.8	519.5
82.5°	193.6	320.3	333.9	398.4	423.9
85°	106.0	203.2	260.6	314.7	329.9
87.5°	43.8	122.7	199.2	243.0	255.8
90°	4.3	89.5	164.2	208.1	220.4
92.5°	12.1	80.5	157.8	202.3	214.8
95°	33.8	113.5	204.6	257.5	281.6
97.5°	171.1	218.7	284.2	338.4	355.5
100°	351.9	394.8	372.3	400.6	408.3
102.5°	550.1	568.4	448.9	421.9	419.0
105°	647.5	656.5	589.7	438.4	411.2



TEST NUMBER: P828613

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L950-CD-UPL18

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	529.0	538.0	543.6	536.8	516.6
115°	452.4	460.8	473.5	474.6	475.3
117.5°	386.3	390.6	404.2	407.2	409.7
120°	323.7	330.6	344.5	345.8	344.9
122.5°	271.5	279.4	292.5	293.9	292.9
125°	222.9	234.1	248.2	249.7	248.8
127.5°	190.7	198.5	212.8	214.2	213.3
130°	166.3	173.2	182.4	186.5	187.4
132.5°	150.6	154.1	161.6	165.7	167.5
135°	135.8	139.3	144.4	150.2	151.8
137.5°	125.4	128.0	131.5	137.1	138.9
140°	115.8	118.4	120.2	125.1	126.8
142.5°	107.1	110.6	112.3	115.6	117.3
145°	101.0	103.6	106.2	107.9	108.7
147.5°	95.8	97.6	99.3	101.0	101.8
150°	90.6	92.3	94.1	94.9	95.8
152.5°	87.1	88.0	89.7	90.6	90.6
155°	82.8	85.3	86.2	87.0	86.2
157.5°	80.2	81.8	82.7	83.6	83.6
160°	77.6	78.3	79.2	80.1	80.1
162.5°	75.7	75.7	76.6	77.5	77.5
165°	73.1	74.0	74.0	74.9	74.9
167.5°	71.4	72.2	72.3	72.3	73.1
170°	69.6	69.6	70.5	69.7	69.7
172.5°	67.9	68.8	68.8	68.0	68.0
175°	67.0	67.0	67.1	66.3	66.3
177.5°	66.9	67.0	66.3	65.4	64.6
180°	66.3	66.3	66.3	66.3	66.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	654.3	665.5	639.0	513.1	439.0
110°	600.4	615.3	609.1	564.1	505.8



(END OF REPORT)