

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: P828456

Luminaire Tested: **OHB-18HE-N-UNV-L950-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828456  
REPORT IS A COMBINATION OF REPORTS P826026 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-18HE-N-UNV-L950-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

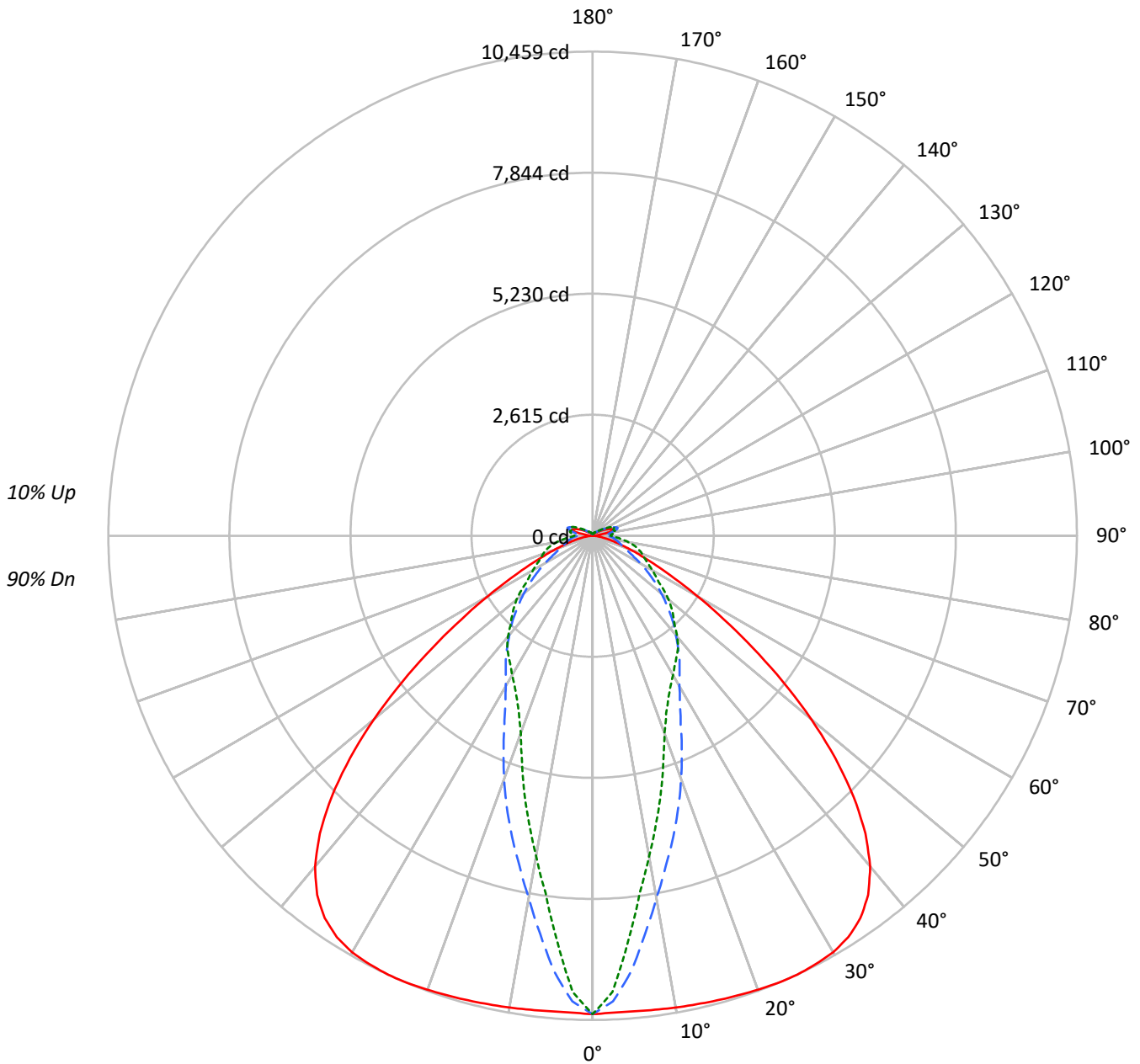
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16331.9 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 113.4  
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: P828456

CATALOG NUMBER: OHB-18HE-N-UNV-L950-CD-UPL12

### 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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	99	91	85	80	95	89	83	78	83	79	75	79	75	72	75	71	69	66																			
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	58																			
4	84	73	65	59	81	71	64	58	68	61	56	64	59	55	61	57	53	51																			
5	78	66	58	52	75	65	57	51	61	55	50	59	53	49	56	51	47	45																			
6	72	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	40																			
7	68	55	47	42	65	54	46	41	52	45	40	49	44	39	47	42	38	36																			
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	33																			
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30																			
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	28																			

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

	0°	45°	90°
0°	34515	34515	34515
5°	34277	31350	29259
10°	34495	26340	23489
15°	34995	22469	19302
20°	35794	18948	15632
25°	36832	15640	13715
30°	37886	13434	12758
35°	38432	12204	12174
40°	37512	10986	11568
45°	34237	9889	10730
50°	28621	8698	10094
55°	21508	7578	9005
60°	14868	6457	8648
65°	9824	5515	8501
70°	6548	5120	8969
75°	4381	5200	9660
80°	2837	5621	10075
85°	1459	6725	10839



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	869.7	5.3
10°-20°	2046.0	12.5
20°-30°	2564.7	15.7
30°-40°	2721.4	16.7
40°-50°	2460.6	15.1
50°-60°	1784.1	10.9
60°-70°	1119.6	6.9
70°-80°	740.9	4.5
80°-90°	429.6	2.6
90°-100°	310.2	1.9
100°-110°	502.6	3.1
110°-120°	397.2	2.4
120°-130°	190.8	1.2
130°-140°	93.7	0.6
140°-150°	53.8	0.3
150°-160°	29.8	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5480.5	33.6
0°-40°	8201.9	50.2
0°-60°	12446.5	76.2
0°-90°	14736.7	90.2
90°-120°	1210.0	7.4
90°-150°	1548.4	9.5
90°-180°	1595.0	9.8
0°-180°	16331.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10332	10332	10332	10332	10332	
5°	10312	10047	9457	9018	8791	986
15°	10390	8469	6726	5982	5710	2947
25°	10459	6548	4504	3997	3870	4832
35°	10084	4353	3269	3166	3165	6269
45°	7972	2757	2369	2426	2467	6073
55°	4220	1709	1546	1677	1737	3813
65°	1509	991	895	1147	1274	1571
75°	466	534	601	933	989	520
85°	82	221	440	612	562	98
90°	3	108	276	386	392	7
95°	26	115	299	406	435	75
105°	457	488	542	485	469	433
115°	324	344	424	449	447	324
125°	165	175	219	232	232	153
135°	98	103	119	134	134	78
145°	77	80	83	91	91	48
155°	64	68	70	72	70	28
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828456

CATALOG NUMBER: OHB-18HE-N-UNV-L950-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10332.1	10332.1	10332.1	10332.1	10332.1
2.5°	10310.5	10251.5	10067.6	9955.5	9861.2
5°	10311.5	10047.0	9456.9	9018.4	8791.2
7.5°	10326.2	9738.2	8675.1	8035.0	7785.3
10°	10348.8	9355.7	7945.5	7263.1	7030.0
12.5°	10365.6	8924.9	7303.4	6602.3	6346.6
15°	10390.1	8468.6	6726.2	5981.8	5710.3
17.5°	10412.8	8039.0	6155.8	5377.9	5076.1
20°	10435.4	7575.8	5585.5	4784.0	4535.3
22.5°	10457.0	7087.0	5028.9	4322.9	4152.7
25°	10459.0	6548.1	4503.8	3997.4	3870.5
27.5°	10433.4	5989.6	4078.0	3725.0	3646.3
30°	10389.2	5447.8	3747.6	3528.3	3472.2
32.5°	10279.0	4895.1	3491.9	3338.5	3306.1
35°	10084.3	4353.3	3268.7	3166.4	3165.4
37.5°	9777.5	3872.4	3026.8	3009.1	3030.7
40°	9324.2	3451.6	2797.6	2844.8	2844.8
42.5°	8719.4	3085.7	2590.2	2638.3	2625.5
45°	7972.1	2757.4	2368.9	2425.9	2467.2
47.5°	7105.7	2468.3	2142.7	2252.9	2309.9
50°	6163.7	2192.9	1936.3	2076.8	2141.8
52.5°	5176.4	1938.2	1734.6	1895.9	1948.0
55°	4220.5	1709.1	1545.9	1676.6	1736.6
57.5°	3355.2	1490.7	1360.9	1484.8	1608.7
60°	2610.9	1302.9	1186.9	1363.9	1487.8
62.5°	1994.2	1135.8	1023.7	1250.9	1374.8
65°	1509.4	991.3	894.8	1146.6	1274.4
67.5°	1137.8	866.3	794.6	1070.9	1195.7
70°	854.6	745.4	713.9	1023.7	1135.8
72.5°	631.3	634.3	650.0	982.4	1067.9
75°	466.1	533.9	600.9	933.2	989.3
77.5°	333.3	442.5	556.6	874.2	893.9
80°	231.1	360.9	510.4	796.5	779.8
82.5°	144.6	289.1	469.1	710.9	664.8
85°	81.6	221.3	439.6	611.7	561.5
87.5°	36.3	165.2	384.5	476.9	445.5
90°	2.6	108.1	275.5	385.9	392.3
92.5°	9.8	96.7	268.0	375.4	389.6
95°	25.6	115.3	299.0	405.7	435.1
97.5°	122.3	184.8	354.7	453.6	474.1
100°	245.9	309.3	408.5	484.9	499.1
102.5°	388.6	423.7	452.7	485.7	489.1
105°	457.3	487.6	542.3	485.0	469.2



TEST NUMBER: P828456

CATALOG NUMBER: OHB-18HE-N-UNV-L950-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	373.3	399.5	486.4	504.9	495.1
115°	323.8	343.5	424.0	448.9	446.6
117.5°	274.4	292.6	365.0	387.0	386.2
120°	231.8	248.7	309.5	326.7	326.7
122.5°	197.0	209.2	261.0	275.1	275.0
125°	164.8	174.8	218.7	231.6	231.5
127.5°	138.6	145.8	184.3	197.3	196.2
130°	122.1	127.5	155.5	170.2	170.2
132.5°	108.9	113.5	134.7	149.4	150.2
135°	98.5	103.1	119.4	134.0	134.0
137.5°	91.6	96.2	106.8	120.4	121.3
140°	84.6	89.2	96.9	109.5	109.5
142.5°	80.3	83.1	88.8	99.5	100.3
145°	77.0	79.7	82.6	91.3	91.2
147.5°	72.7	76.3	79.1	84.0	83.9
150°	70.1	73.9	74.8	78.6	77.6
152.5°	66.6	70.4	71.3	74.1	73.1
155°	64.0	67.8	69.6	71.5	69.6
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	459.9	494.2	567.7	518.0	469.2
110°	422.7	456.3	537.5	538.3	500.8



(END OF REPORT)