

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: P827706

Luminaire Tested: **OHBL-18HE-W-UNV-L930-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827706  
REPORT IS A COMBINATION OF REPORTS P826064 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: OHBL-18HE-W-UNV-L930-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

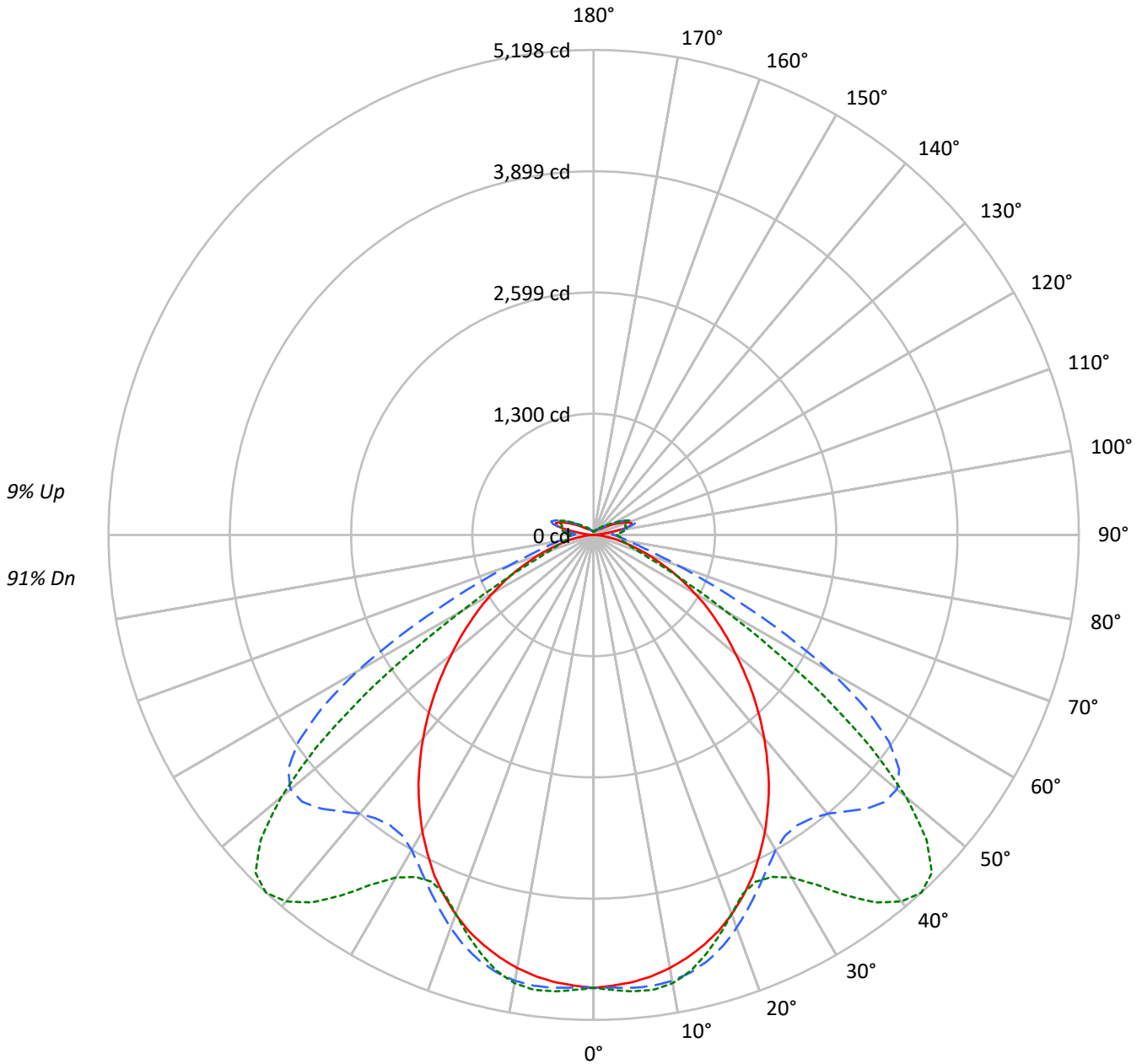
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15543.7 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 111.4  
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: P827706

CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD-UPL12

### Luminous Intensity Polar Plot





TEST NUMBER: P827706

CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD-UPL12

**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	107	103	99	95	104	100	96	93	94	91	88	89	86	84	84	82	80	77																			
2	98	90	83	78	94	87	81	76	82	78	73	78	74	70	74	70	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	46	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	46	40	52	45	39	49	43	38	47	42	37	35																			
7	64	51	42	36	62	49	41	35	47	40	35	45	38	34	43	37	33	31																			
8	59	46	37	32	57	45	37	31	43	36	31	41	35	30	39	34	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	35	29	24	33	28	24	22																			

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

	0°	45°	90°
0°	8292	8292	8292
5°	8175	8281	8387
10°	8033	8268	8397
15°	7838	8131	8128
20°	7585	7852	7730
25°	7262	7513	7575
30°	6845	7262	8151
35°	6379	7396	9538
40°	5846	8010	11027
45°	5293	9086	11853
50°	4720	10047	11030
55°	4181	10034	8428
60°	3635	8489	5153
65°	3064	5861	3122
70°	2430	3789	2253
75°	1782	2715	2089
80°	1203	2383	2357
85°	719	2617	3727



TEST NUMBER: P827706

CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD-UPL12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.0	3.0
10°-20°	1313.8	8.5
20°-30°	1922.5	12.4
30°-40°	2496.8	16.1
40°-50°	3048.9	19.6
50°-60°	2685.0	17.3
60°-70°	1399.2	9.0
70°-80°	600.0	3.9
80°-90°	290.7	1.9
90°-100°	231.6	1.5
100°-110°	418.7	2.7
110°-120°	337.1	2.2
120°-130°	164.8	1.1
130°-140°	82.5	0.5
140°-150°	46.6	0.3
150°-160°	25.7	0.2
160°-170°	12.1	0.1
170°-180°	3.7	0.0
0°-30°	3700.3	23.8
0°-40°	6197.1	39.9
0°-60°	11931.0	76.8
0°-90°	14220.9	91.5
90°-120°	987.4	6.4
90°-150°	1281.3	8.2
90°-180°	1323.0	8.5
0°-180°	15543.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4855	4855	4855	4855	4855	
5°	4810	4847	4873	4916	4911	456
15°	4551	4679	4724	4689	4651	1282
25°	4033	4249	4176	4098	4102	1851
35°	3273	3619	3800	4432	4716	2040
45°	2410	3032	4145	5018	5123	1858
55°	1605	2656	3860	3384	3008	1440
65°	921	1840	1767	982	845	911
75°	371	861	568	389	369	404
85°	79	307	289	283	286	88
90°	4	126	210	243	251	7
95°	22	112	221	272	292	68
105°	422	450	451	368	350	400
115°	297	312	353	364	361	297
125°	150	158	187	196	198	139
135°	89	91	105	117	118	71
145°	69	68	70	77	80	43
155°	57	58	56	57	57	25
165°	42	42	43	43	43	12
175°	38	38	38	38	38	4
180°	37	37	37	37	37	



TEST NUMBER: P827706

CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4855.1	4855.1	4855.1	4855.1	4855.1
2.5°	4834.2	4855.1	4856.1	4885.5	4882.3
5°	4810.1	4846.8	4873.0	4915.9	4910.6
7.5°	4770.3	4827.9	4874.0	4921.1	4916.9
10°	4713.7	4792.3	4853.0	4891.8	4879.2
12.5°	4640.4	4744.1	4803.8	4812.2	4788.1
15°	4551.3	4679.1	4724.1	4688.6	4650.8
17.5°	4450.8	4600.5	4616.3	4538.8	4491.7
20°	4325.1	4495.8	4480.1	4373.2	4320.9
22.5°	4185.8	4380.6	4330.3	4218.2	4167.9
25°	4032.9	4248.6	4176.3	4097.8	4102.0
27.5°	3853.7	4098.8	4028.7	4064.3	4131.3
30°	3671.4	3941.7	3898.8	4106.2	4238.2
32.5°	3471.4	3780.4	3819.1	4228.7	4444.5
35°	3273.4	3619.1	3800.3	4431.9	4715.8
37.5°	3054.4	3455.7	3830.7	4666.6	4964.1
40°	2841.9	3296.5	3899.8	4877.1	5128.5
42.5°	2625.0	3154.0	4016.0	5001.7	5197.7
45°	2410.3	3032.5	4144.9	5018.5	5123.3
47.5°	2195.5	2929.8	4234.0	4885.5	4837.3
50°	1988.1	2838.7	4240.3	4566.0	4369.0
52.5°	1794.3	2754.9	4125.0	4056.9	3751.1
55°	1604.8	2656.4	3860.0	3384.4	3008.4
57.5°	1431.9	2520.2	3451.5	2661.7	2251.0
60°	1248.6	2335.9	2923.6	1947.3	1623.6
62.5°	1079.9	2106.5	2331.7	1355.4	1166.9
65°	920.8	1840.4	1767.1	982.5	845.4
67.5°	752.1	1564.9	1304.2	716.5	628.5
70°	620.2	1309.3	971.1	557.3	505.9
72.5°	485.0	1066.4	725.9	452.5	424.2
75°	370.8	861.0	567.8	388.6	368.7
77.5°	273.4	680.9	456.7	343.5	324.7
80°	191.7	536.3	382.3	306.9	299.6
82.5°	128.8	414.8	325.8	292.2	293.3
85°	78.6	306.9	289.1	282.8	286.0
87.5°	37.7	217.8	248.2	257.7	260.8
90°	3.5	125.6	210.0	242.9	251.4
92.5°	7.3	103.5	198.3	238.5	247.8
95°	22.3	111.8	221.4	271.8	291.6
97.5°	111.2	172.3	270.4	321.9	333.0
100°	226.3	286.2	321.2	356.2	363.4
102.5°	358.0	390.8	364.4	363.2	361.2
105°	422.1	449.8	450.9	368.1	350.0



TEST NUMBER: P827706

CATALOG NUMBER: OHBL-18HE-W-UNV-L930-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	344.2	365.4	407.0	408.8	397.1
115°	297.3	311.9	352.6	363.8	361.0
117.5°	251.5	266.2	303.2	313.3	312.7
120°	211.9	225.0	257.0	266.4	267.5
122.5°	179.5	188.8	219.5	228.6	230.5
125°	149.6	158.4	186.8	195.6	197.5
127.5°	125.1	131.0	159.7	169.3	170.4
130°	109.8	113.0	135.9	147.2	149.3
132.5°	98.5	100.9	118.7	130.1	133.0
135°	88.8	91.2	104.8	117.2	118.3
137.5°	82.3	83.9	93.6	104.9	107.8
140°	75.8	78.2	84.1	95.3	96.4
142.5°	72.0	72.6	77.4	86.5	88.4
145°	69.0	68.5	70.4	77.4	80.3
147.5°	65.0	65.6	67.2	71.4	73.2
150°	62.6	63.4	62.1	65.0	67.1
152.5°	59.3	60.1	58.8	59.7	61.8
155°	56.9	57.7	56.4	57.2	57.2
157.5°	46.1	47.7	47.7	48.5	48.5
160°	44.5	45.3	46.1	46.1	46.1
162.5°	42.8	43.6	43.6	44.5	44.5
165°	42.0	42.0	42.8	42.8	42.8
167.5°	40.4	40.4	41.2	41.2	41.2
170°	39.6	39.6	39.6	40.4	40.4
172.5°	38.8	38.8	38.8	38.8	38.8
175°	38.0	38.0	38.0	38.0	38.0
177.5°	37.2	38.0	38.0	38.0	38.0
180°	37.2	37.2	37.2	37.2	37.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	425.6	454.4	476.8	407.3	357.7
110°	390.0	418.7	450.2	433.8	394.6



(END OF REPORT)