

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: P828003

Luminaire Tested: **OHBL-18HE-NL-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828003  
REPORT IS A COMBINATION OF REPORTS P826063 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-NL-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

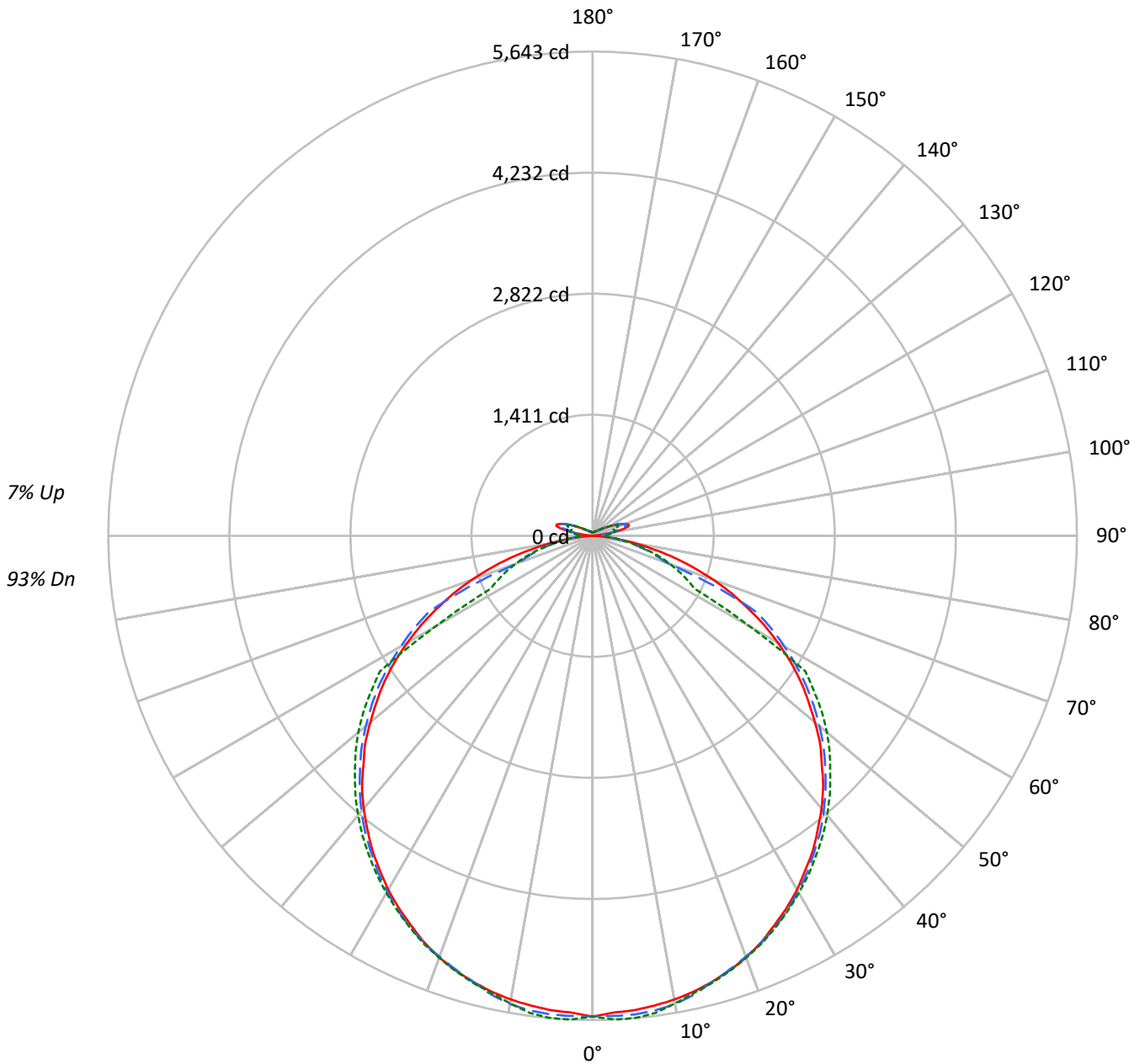
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16766.2 lumens  
Efficiency: N/A  
Efficacy: 150.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
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

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	97	93	95	92	89	90	87	85	85	83	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	72	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	55	65	59	53	62	56	52	59	54	50	48																			
5	75	63	54	48	73	61	53	47	59	51	46	56	50	45	53	48	44	42																			
6	70	57	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	37	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	27	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

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

	0°	45°	90°
0°	9568	9568	9568
5°	9466	9550	9651
10°	9418	9506	9552
15°	9366	9361	9468
20°	9300	9282	9422
25°	9182	9224	9378
30°	9080	9121	9337
35°	8957	9000	9301
40°	8810	8885	9273
45°	8604	8724	9216
50°	8383	8543	9179
55°	8115	8313	9023
60°	7714	7973	6971
65°	7138	7537	4643
70°	6397	3875	4439
75°	5310	3502	4139
80°	3730	2930	3624
85°	1497	2348	3135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.2	3.2
10°-20°	1523.9	9.1
20°-30°	2318.7	13.8
30°-40°	2819.2	16.8
40°-50°	2964.3	17.7
50°-60°	2706.7	16.1
60°-70°	1735.1	10.3
70°-80°	819.7	4.9
80°-90°	229.9	1.4
90°-100°	159.3	1.0
100°-110°	361.4	2.2
110°-120°	300.8	1.8
120°-130°	142.0	0.8
130°-140°	71.0	0.4
140°-150°	41.3	0.2
150°-160°	24.1	0.1
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	4374.8	26.1
0°-40°	7194.0	42.9
0°-60°	12865.0	76.7
0°-90°	15649.8	93.3
90°-120°	821.6	4.9
90°-150°	1076.0	6.4
90°-180°	1116.0	6.7
0°-180°	16766.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5602	5602	5602	5602	5602	
5°	5550	5572	5600	5631	5642	528
15°	5382	5422	5381	5389	5393	1519
25°	5008	5016	5034	5042	5038	2311
35°	4476	4450	4501	4556	4543	2798
45°	3776	3769	3833	3923	3916	2918
55°	2959	2936	3035	3137	3145	2639
65°	1994	1994	2109	1210	1214	1976
75°	985	1004	652	686	689	1038
85°	129	163	204	220	208	190
90°	2	70	110	133	134	7
95°	24	77	137	184	199	70
105°	436	437	379	273	251	413
115°	305	307	311	305	294	303
125°	147	152	156	154	155	137
135°	85	88	91	92	92	68
145°	62	64	65	66	67	40
155°	50	51	52	52	52	23
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5602.0	5602.0	5602.0	5602.0	5602.0
2.5°	5562.7	5581.4	5602.0	5628.6	5643.2
5°	5549.9	5571.5	5600.1	5630.6	5642.3
7.5°	5522.4	5552.8	5580.4	5602.0	5608.9
10°	5488.0	5524.4	5540.1	5538.2	5533.2
12.5°	5441.8	5480.2	5475.2	5452.6	5456.5
15°	5381.8	5422.1	5380.9	5388.7	5392.7
17.5°	5311.1	5350.4	5302.2	5317.9	5318.9
20°	5228.5	5258.0	5220.6	5233.4	5233.4
22.5°	5129.3	5149.8	5134.2	5143.0	5144.9
25°	5008.3	5016.1	5033.8	5041.8	5037.8
27.5°	4892.3	4882.5	4916.9	4935.6	4925.7
30°	4763.5	4747.8	4788.1	4818.6	4806.8
32.5°	4616.1	4606.2	4652.5	4688.8	4681.9
35°	4476.5	4450.0	4501.1	4556.1	4543.3
37.5°	4311.3	4295.7	4353.6	4411.7	4404.8
40°	4150.2	4123.6	4189.5	4258.2	4251.4
42.5°	3977.2	3945.7	4017.4	4100.1	4092.2
45°	3775.6	3768.8	3832.6	3923.1	3916.2
47.5°	3596.8	3562.3	3651.8	3739.3	3747.2
50°	3380.4	3367.8	3449.3	3555.5	3563.2
52.5°	3169.2	3160.3	3245.8	3352.9	3366.7
55°	2958.8	2936.2	3035.4	3136.7	3144.6
57.5°	2733.8	2710.1	2811.3	2921.5	2938.2
60°	2492.8	2470.3	2581.2	2683.6	2134.1
62.5°	2252.0	2236.2	2352.3	1666.2	1342.8
65°	1993.5	1993.5	2109.4	1210.0	1214.0
67.5°	1751.8	1736.0	1572.8	1087.1	1087.1
70°	1492.2	1498.1	906.2	952.6	953.5
72.5°	1231.7	1253.3	782.5	819.8	821.8
75°	984.9	1003.7	651.7	686.2	689.1
77.5°	723.5	556.3	523.9	550.5	551.5
80°	508.2	350.9	401.1	426.6	423.7
82.5°	296.8	245.8	293.9	312.7	311.6
85°	128.8	163.2	203.5	220.3	208.3
87.5°	41.2	101.2	126.8	136.7	135.6
90°	2.5	70.1	110.4	132.9	134.4
92.5°	7.5	62.3	110.3	143.3	148.4
95°	23.8	76.8	136.6	184.2	199.2
97.5°	114.5	143.1	184.5	232.1	242.4
100°	232.0	264.2	236.3	264.1	269.3
102.5°	370.8	374.6	282.0	269.8	266.7
105°	435.8	436.7	379.1	273.2	251.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	354.3	358.8	359.2	342.9	321.8
115°	304.9	306.8	310.6	305.2	294.3
117.5°	251.7	255.0	257.5	255.0	253.3
120°	210.8	215.8	217.5	214.2	214.2
122.5°	177.5	181.7	184.2	181.7	182.5
125°	146.7	152.5	155.8	154.2	155.0
127.5°	122.5	127.5	133.3	132.5	132.5
130°	106.7	110.0	114.2	115.0	115.0
132.5°	95.0	97.5	100.8	101.7	102.5
135°	85.0	87.5	90.8	91.7	91.7
137.5°	78.3	80.0	82.5	83.3	84.2
140°	71.7	74.2	75.8	76.7	76.7
142.5°	66.7	68.3	70.0	70.8	71.7
145°	62.5	64.2	65.0	65.8	66.7
147.5°	58.3	60.0	61.7	61.7	62.5
150°	55.8	56.7	57.5	58.3	58.3
152.5°	52.5	53.3	54.2	55.0	55.0
155°	50.0	50.8	51.7	52.5	52.5
157.5°	47.5	49.2	49.2	50.0	50.0
160°	45.8	46.7	47.5	47.5	47.5
162.5°	44.2	45.0	45.0	45.8	45.8
165°	43.3	43.3	44.2	44.2	44.2
167.5°	41.7	41.7	42.5	42.5	42.5
170°	40.8	40.8	40.8	41.7	41.7
172.5°	40.0	40.0	40.0	40.0	40.0
175°	39.2	39.2	39.2	39.2	39.2
177.5°	38.3	39.2	39.2	39.2	39.2
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	438.2	444.8	414.6	319.7	260.4
110°	402.6	411.3	395.9	357.9	308.4



(END OF REPORT)