

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: P828004

Luminaire Tested: **OHBL-18HE-NL-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828004  
REPORT IS A COMBINATION OF REPORTS P826159 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-NL-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

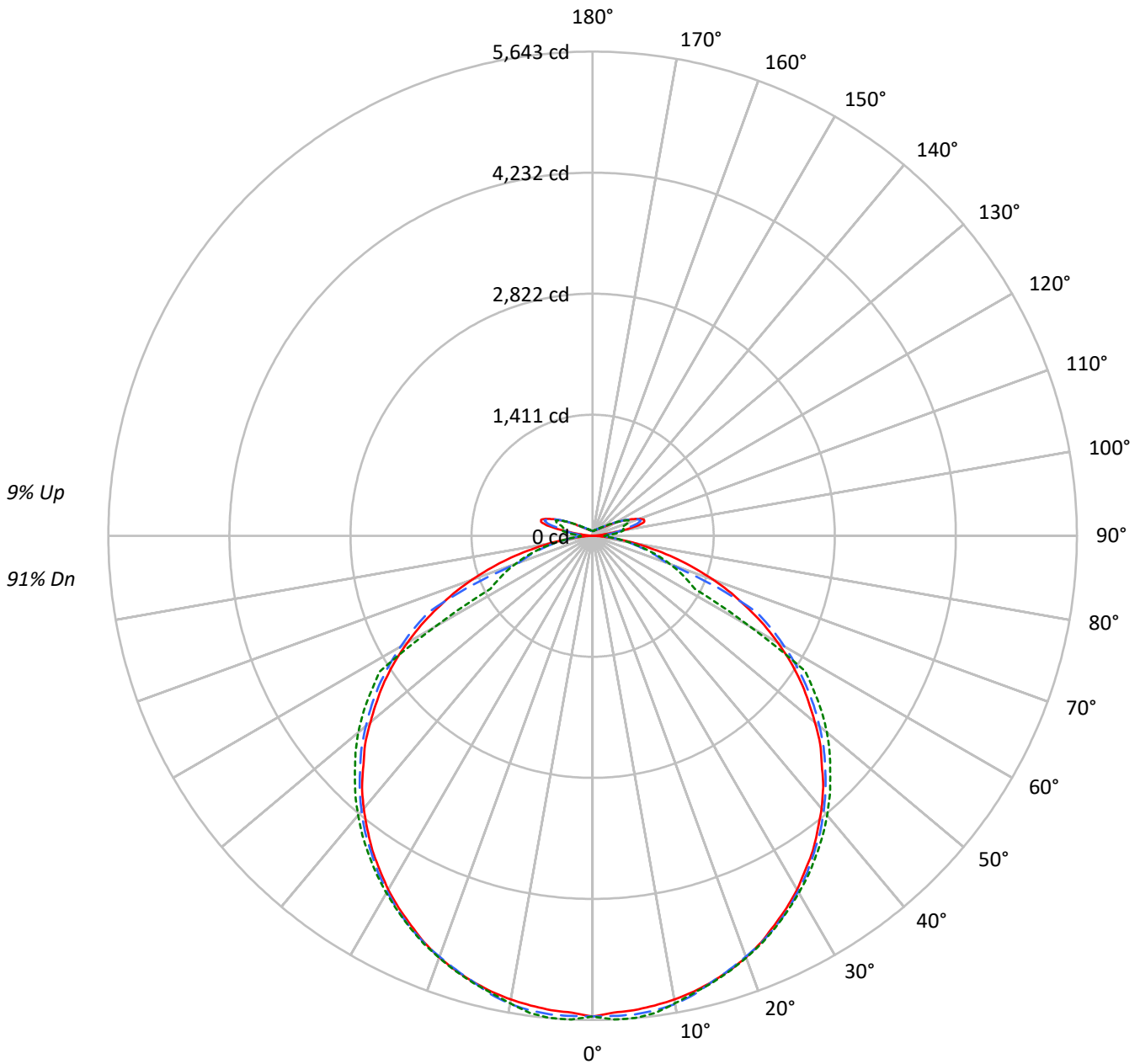
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17219.9 lumens  
Efficiency: N/A  
Efficacy: 149.3 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): 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

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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	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	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	73	66	61	69	64	59	65	61	57	55																			
4	82	70	62	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	63	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	50	43	39	47	42	38	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	38	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	42	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	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	3.1
10°-20°	1523.9	8.8
20°-30°	2318.7	13.5
30°-40°	2819.2	16.4
40°-50°	2964.3	17.2
50°-60°	2706.7	15.7
60°-70°	1735.1	10.1
70°-80°	819.7	4.8
80°-90°	231.0	1.3
90°-100°	202.9	1.2
100°-110°	512.0	3.0
110°-120°	430.3	2.5
120°-130°	204.5	1.2
130°-140°	102.1	0.6
140°-150°	59.3	0.3
150°-160°	34.6	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	4374.8	25.4
0°-40°	7194.0	41.8
0°-60°	12865.0	74.7
0°-90°	15650.9	90.9
90°-120°	1145.2	6.7
90°-150°	1511.0	8.8
90°-180°	1569.0	9.1
0°-180°	17219.9	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°	3	76	119	145	147	8
95°	35	97	172	227	247	101
105°	622	622	537	383	354	591
115°	432	439	441	434	427	435
125°	208	218	224	223	222	196
135°	123	126	130	132	132	98
145°	90	92	94	95	95	57
155°	72	73	74	75	75	34
165°	62	62	62	63	63	18
175°	56	56	57	57	57	5
180°	56	56	56	56	56	



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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°	3.3	75.9	118.8	144.6	146.9
92.5°	10.8	70.7	124.5	161.7	169.2
95°	34.6	96.8	172.4	226.7	246.7
97.5°	164.5	198.1	244.5	303.8	319.1
100°	337.0	368.3	325.5	358.2	364.3
102.5°	529.1	537.1	397.0	373.1	369.2
105°	622.4	622.5	537.4	383.2	353.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	507.6	512.9	505.8	489.6	461.8
115°	432.4	439.3	441.4	433.5	426.8
117.5°	364.2	366.7	368.3	366.7	367.5
120°	304.2	310.0	313.3	310.8	309.2
122.5°	254.2	261.7	265.8	263.3	261.7
125°	208.3	218.3	224.2	223.3	221.7
127.5°	176.7	184.2	191.7	190.8	189.2
130°	153.3	159.2	164.2	165.0	165.8
132.5°	137.5	140.0	145.0	145.8	147.5
135°	123.3	125.8	130.0	131.7	132.5
137.5°	112.5	115.0	118.3	120.0	120.8
140°	103.3	105.8	108.3	110.0	110.8
142.5°	95.8	98.3	100.8	101.7	102.5
145°	90.0	91.7	94.2	95.0	95.0
147.5°	84.2	85.8	87.5	89.2	89.2
150°	79.2	80.8	82.5	83.3	84.2
152.5°	75.8	76.7	78.3	79.2	79.2
155°	71.7	73.3	74.2	75.0	75.0
157.5°	69.2	70.0	70.8	71.7	71.7
160°	66.7	66.7	67.5	68.3	68.3
162.5°	64.2	64.2	65.0	65.8	65.8
165°	61.7	62.5	62.5	63.3	63.3
167.5°	60.0	60.0	60.8	60.8	61.7
170°	58.3	58.3	59.2	59.2	59.2
172.5°	56.7	57.5	57.5	57.5	57.5
175°	55.8	55.8	56.7	56.7	56.7
177.5°	55.0	55.8	55.8	55.8	55.8
180°	55.8	55.8	55.8	55.8	55.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	628.2	633.1	588.8	455.5	377.1
110°	576.8	586.3	564.2	510.4	445.9



(END OF REPORT)