

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: P828026

Luminaire Tested: **OHBL-18SE-W-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828026  
REPORT IS A COMBINATION OF REPORTS P826238 AND G3-2310-221-6  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-W-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

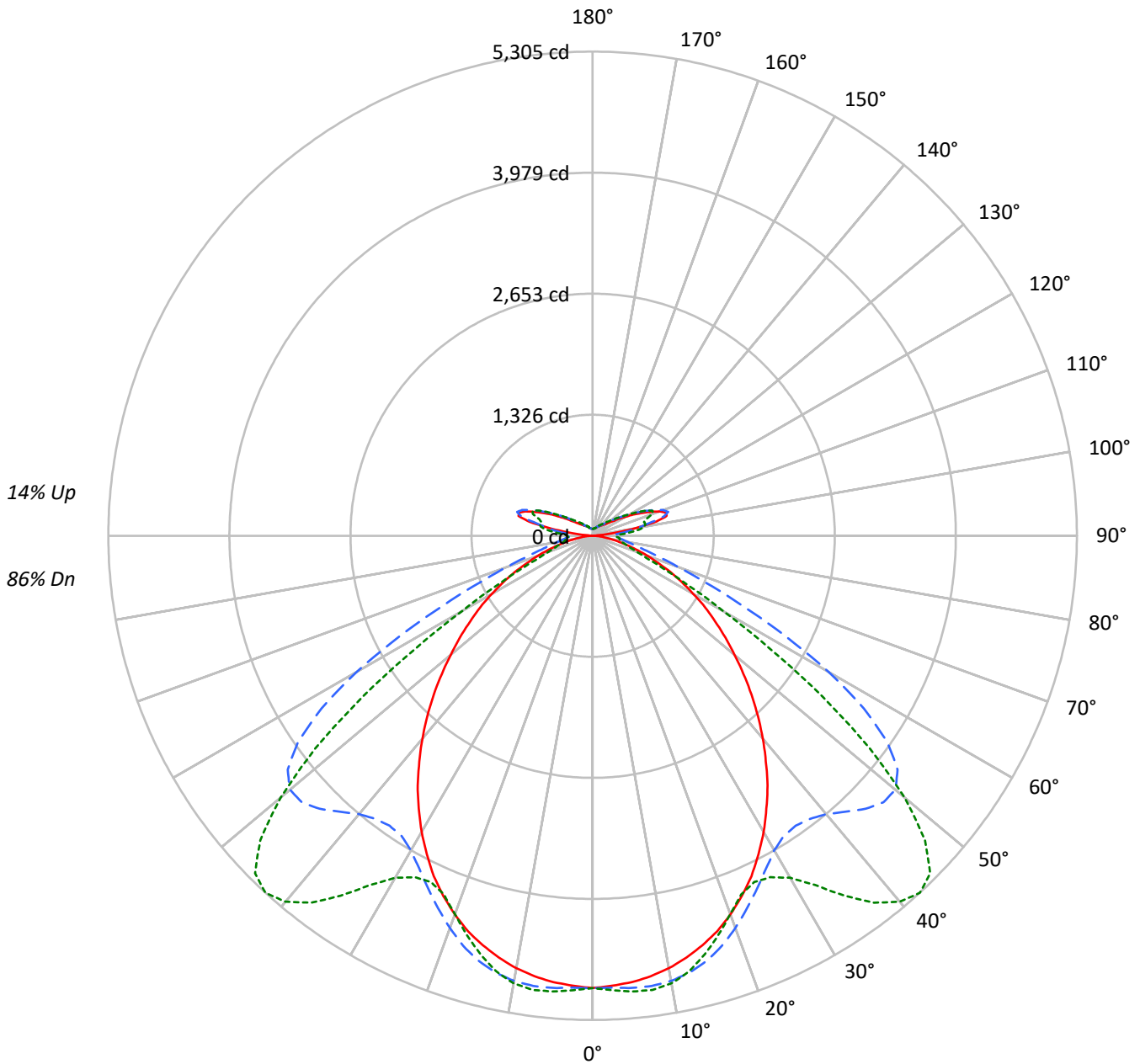
Lumens per Lamp: N/A  
Luminaire Lumens: 16854.4 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): 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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	106	102	97	94	102	98	94	91	91	88	86	85	83	81	79	77	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61																			
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44																			
5	74	62	53	46	71	60	52	46	56	49	44	53	47	42	49	44	40	38																			
6	68	55	46	40	65	54	45	40	50	43	38	47	41	37	45	39	35	33																			
7	63	50	41	35	61	48	40	35	46	39	33	43	37	32	41	35	31	29																			
8	59	45	37	31	56	44	36	31	42	35	30	39	33	29	37	32	28	26																			
9	55	41	33	28	52	40	33	27	38	31	27	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	29	24	33	27	23	32	26	23	21																			

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

	0°	45°	90°
0°	8464	8464	8464
5°	8344	8452	8560
10°	8199	8439	8571
15°	8000	8299	8296
20°	7742	8014	7889
25°	7412	7669	7731
30°	6987	7412	8320
35°	6510	7549	9735
40°	5966	8176	11255
45°	5402	9274	12098
50°	4818	10254	11258
55°	4268	10241	8602
60°	3711	8664	5259
65°	3127	5982	3186
70°	2479	3867	2300
75°	1819	2771	2132
80°	1228	2432	2406
85°	733	2672	3802



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.5	2.8
10°-20°	1341.0	8.0
20°-30°	1962.3	11.6
30°-40°	2548.4	15.1
40°-50°	3111.9	18.5
50°-60°	2740.5	16.3
60°-70°	1428.1	8.5
70°-80°	612.4	3.6
80°-90°	299.2	1.8
90°-100°	331.4	2.0
100°-110°	756.6	4.5
110°-120°	626.2	3.7
120°-130°	303.6	1.8
130°-140°	152.0	0.9
140°-150°	86.7	0.5
150°-160°	49.0	0.3
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	3776.8	22.4
0°-40°	6325.1	37.5
0°-60°	12177.6	72.3
0°-90°	14517.3	86.1
90°-120°	1714.2	10.2
90°-150°	2256.5	13.4
90°-180°	2337.0	13.9
0°-180°	16854.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4955	4955	4955	4955	4955	
5°	4910	4947	4974	5018	5012	466
15°	4645	4776	4822	4786	4747	1308
25°	4116	4336	4263	4182	4187	1889
35°	3341	3694	3879	4524	4813	2082
45°	2460	3095	4231	5122	5229	1897
55°	1638	2711	3940	3454	3071	1470
65°	940	1878	1804	1003	863	930
75°	378	879	580	397	376	413
85°	80	313	295	289	292	89
90°	5	142	234	274	285	9
95°	46	159	298	372	402	139
105°	840	864	804	622	583	798
115°	583	604	644	657	654	588
125°	289	307	339	349	347	271
135°	173	176	193	206	209	137
145°	129	131	134	141	144	82
155°	105	107	106	107	107	48
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4955.4	4955.4	4955.4	4955.4	4955.4
2.5°	4934.1	4955.4	4956.5	4986.5	4983.2
5°	4909.5	4946.9	4973.7	5017.5	5012.1
7.5°	4868.8	4927.7	4974.7	5022.8	5018.5
10°	4811.1	4891.3	4953.3	4992.8	4980.1
12.5°	4736.2	4842.2	4903.1	4911.6	4887.0
15°	4645.4	4775.8	4821.8	4785.5	4747.0
17.5°	4542.8	4695.7	4711.7	4632.6	4584.5
20°	4414.5	4588.8	4572.7	4463.7	4410.2
22.5°	4272.2	4471.2	4419.8	4305.4	4254.1
25°	4116.2	4336.4	4262.7	4182.5	4186.8
27.5°	3933.3	4183.5	4111.9	4148.2	4216.7
30°	3747.3	4023.2	3979.3	4191.0	4325.8
32.5°	3543.1	3858.5	3898.1	4316.1	4536.3
35°	3341.1	3693.8	3878.8	4523.5	4813.2
37.5°	3117.6	3527.1	3909.8	4763.0	5066.7
40°	2900.6	3364.6	3980.4	4977.9	5234.5
42.5°	2679.2	3219.2	4099.1	5105.2	5305.1
45°	2460.1	3095.2	4230.6	5122.2	5229.2
47.5°	2240.9	2990.4	4321.4	4986.5	4937.2
50°	2029.2	2897.3	4327.8	4660.3	4459.3
52.5°	1831.4	2811.8	4210.2	4140.8	3828.6
55°	1637.9	2711.3	3939.8	3454.4	3070.6
57.5°	1461.5	2572.3	3522.8	2716.7	2297.6
60°	1274.4	2384.2	2984.0	1987.5	1657.2
62.5°	1102.2	2150.0	2379.9	1383.5	1191.0
65°	939.8	1878.5	1803.7	1002.8	862.8
67.5°	767.7	1597.3	1331.1	731.2	641.5
70°	632.9	1336.4	991.1	568.8	516.4
72.5°	495.0	1088.4	740.9	461.8	433.0
75°	378.5	878.8	579.5	396.7	376.3
77.5°	279.1	694.9	466.2	350.7	331.4
80°	195.7	547.4	390.2	313.2	305.8
82.5°	131.5	423.4	332.5	298.2	299.3
85°	80.2	313.2	295.1	288.7	291.8
87.5°	38.5	222.4	253.4	263.0	266.2
90°	5.2	141.7	233.8	274.1	285.2
92.5°	14.2	124.1	231.1	283.8	300.0
95°	46.3	158.8	298.3	371.8	402.1
97.5°	226.3	297.0	399.8	482.6	513.3
100°	463.2	535.4	518.2	567.4	578.1
102.5°	714.0	748.3	626.2	596.4	591.8
105°	840.1	864.1	803.8	621.7	582.9



TEST NUMBER: P828026

CATALOG NUMBER: OHBL-18SE-W-UNV-L935-CD-UPL24

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	679.8	709.0	740.6	736.3	711.8
115°	583.1	603.9	644.5	656.8	653.9
117.5°	500.8	513.4	552.0	564.0	565.9
120°	415.8	433.5	472.1	480.7	476.8
122.5°	350.0	365.3	399.2	409.3	405.3
125°	289.2	307.3	338.8	348.8	347.2
127.5°	244.8	256.7	288.5	300.0	300.2
130°	213.9	220.6	248.2	259.7	262.7
132.5°	190.6	196.4	217.2	231.2	232.6
135°	173.1	176.4	192.9	206.3	209.1
137.5°	158.9	161.4	173.9	187.1	189.2
140°	146.4	149.8	158.2	170.6	172.4
142.5°	136.7	138.9	145.4	155.7	156.8
145°	129.4	130.6	134.2	141.4	144.3
147.5°	121.9	124.2	125.8	131.8	132.8
150°	116.1	117.8	118.1	121.1	124.0
152.5°	110.3	111.9	112.2	113.1	115.3
155°	105.2	106.9	106.4	107.2	107.2
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	844.5	875.7	867.3	715.5	615.9
110°	779.5	810.5	823.2	776.2	696.7



(END OF REPORT)