

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: P828056

Luminaire Tested: **OHBL-24SE-N-UNV-L935-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828056  
REPORT IS A COMBINATION OF REPORTS P826308 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24SE-N-UNV-L935-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

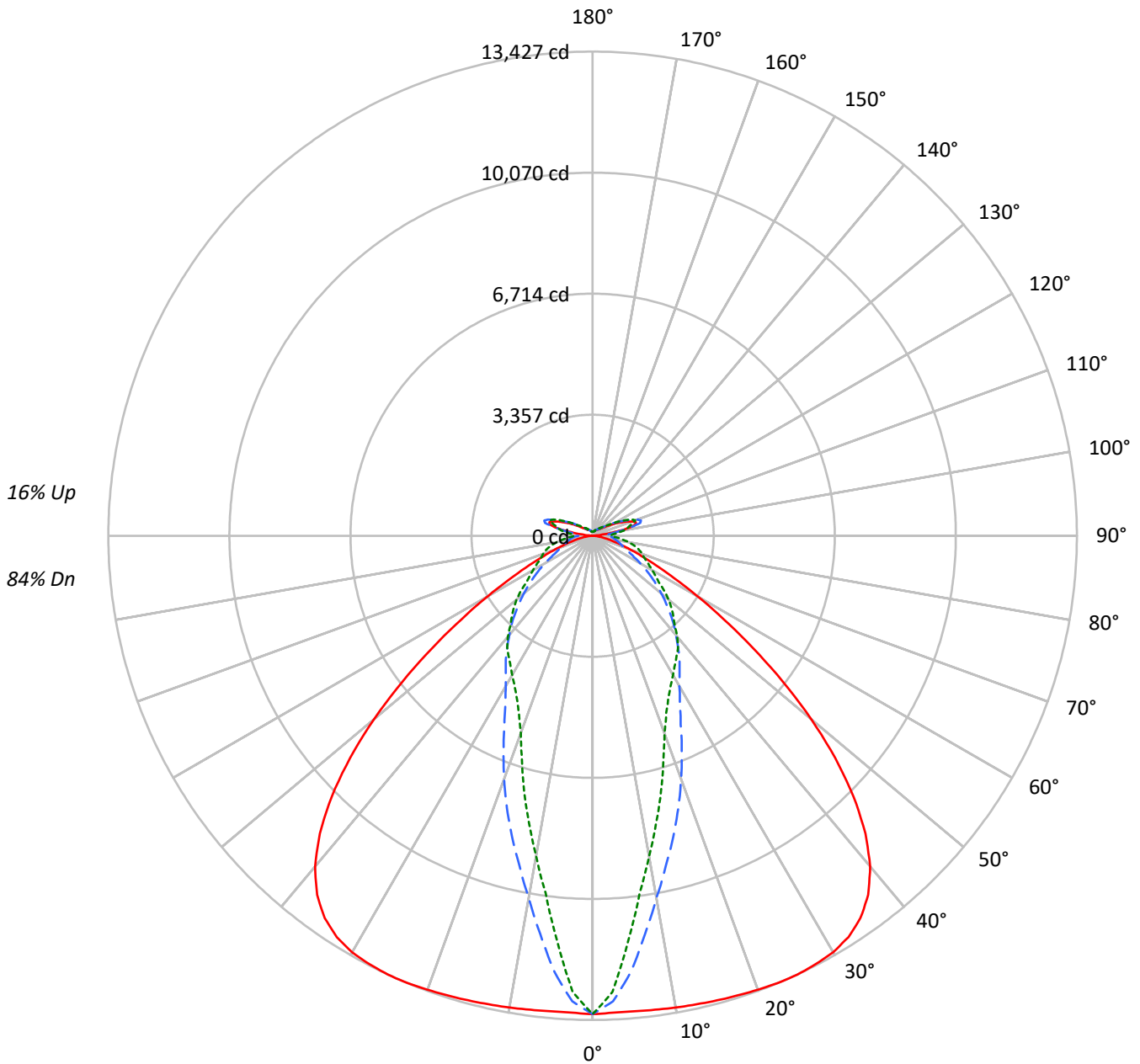
Lumens per Lamp: N/A  
Luminaire Lumens: 22561.8 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
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: P828056

CATALOG NUMBER: OHBL-24SE-N-UNV-L935-CD-UPL36

### 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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																			
1	106	101	97	94	102	98	94	91	90	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	71	68	70	67	64	62																			
3	90	80	73	67	86	77	71	65	72	67	62	67	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	45	41	48	43	40	37																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	39	35	43	38	34	41	36	33	31																			
9	58	46	38	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

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

	0°	45°	90°
0°	22655	22655	22655
5°	22500	20631	19276
10°	22643	17379	15532
15°	22971	14863	12811
20°	23495	12567	10415
25°	24177	10402	9176
30°	24868	8961	8573
35°	25227	8167	8220
40°	24623	7377	7853
45°	22473	6667	7328
50°	18786	5890	6941
55°	14118	5159	6245
60°	9759	4424	6062
65°	6448	3810	6041
70°	4298	3576	6495
75°	2876	3688	7197
80°	1862	4084	7877
85°	958	5109	9393



TEST NUMBER: P828056

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1116.6	4.9
10°-20°	2626.7	11.6
20°-30°	3292.5	14.6
30°-40°	3493.7	15.5
40°-50°	3158.9	14.0
50°-60°	2290.4	10.2
60°-70°	1437.3	6.4
70°-80°	951.2	4.2
80°-90°	554.4	2.5
90°-100°	494.7	2.2
100°-110°	1221.6	5.4
110°-120°	972.5	4.3
120°-130°	461.5	2.0
130°-140°	231.1	1.0
140°-150°	134.1	0.6
150°-160°	76.6	0.3
160°-170°	36.7	0.2
170°-180°	11.2	0.0
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0°-30°	7035.7	31.2
0°-40°	10529.5	46.7
0°-60°	15978.7	70.8
0°-90°	18921.6	83.9
90°-120°	2688.9	11.9
90°-150°	3515.7	15.6
90°-180°	3640.0	16.1
0°-180°	22561.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13264	13264	13264	13264	13264	
5°	13238	12898	12141	11578	11286	###
15°	13339	10872	8635	7679	7331	3783
25°	13427	8406	5782	5132	4969	6203
35°	12946	5589	4196	4065	4064	8048
45°	10234	3540	3041	3114	3167	7797
55°	5418	2194	1984	2152	2229	4896
65°	1938	1272	1149	1472	1636	2016
75°	598	686	771	1198	1270	667
85°	105	284	564	785	721	126
90°	7	160	380	521	525	11
95°	57	187	425	566	597	197
105°	1241	1284	1365	1137	1061	1180
115°	872	886	995	1036	1031	881
125°	438	458	519	531	521	411
135°	263	271	294	314	315	208
145°	197	202	209	222	221	125
155°	162	168	172	175	172	73
165°	126	128	128	129	130	36
175°	115	115	116	116	117	11
180°	113	113	113	113	113	



TEST NUMBER: P828056

CATALOG NUMBER: OHBL-24SE-N-UNV-L935-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13264.2	13264.2	13264.2	13264.2	13264.2
2.5°	13236.5	13160.8	12924.7	12780.8	12659.5
5°	13237.8	12898.2	12140.7	11577.7	11286.0
7.5°	13256.7	12501.8	11137.1	10315.2	9994.6
10°	13285.7	12010.7	10200.3	9324.2	9025.0
12.5°	13307.2	11457.8	9376.0	8475.9	8147.7
15°	13338.8	10871.9	8634.9	7679.3	7330.8
17.5°	13367.8	10320.2	7902.8	6904.2	6516.6
20°	13396.8	9725.7	7170.5	6141.7	5822.2
22.5°	13424.6	9098.2	6456.0	5549.6	5331.2
25°	13427.1	8406.4	5781.9	5131.8	4968.9
27.5°	13394.2	7689.4	5235.2	4782.1	4681.1
30°	13337.4	6993.8	4811.1	4529.6	4457.6
32.5°	13196.1	6284.3	4482.8	4285.9	4244.3
35°	12946.1	5588.8	4196.2	4065.0	4063.8
37.5°	12552.3	4971.4	3885.8	3863.0	3890.8
40°	11970.2	4431.1	3591.6	3652.2	3652.2
42.5°	11193.8	3961.5	3325.3	3387.1	3370.7
45°	10234.4	3539.8	3041.2	3114.4	3167.4
47.5°	9122.3	3168.7	2750.8	2892.2	2965.4
50°	7912.8	2815.2	2485.7	2666.2	2749.6
52.5°	6645.3	2488.2	2226.9	2433.9	2500.8
55°	5418.3	2194.1	1984.5	2152.4	2229.4
57.5°	4307.3	1913.8	1747.2	1906.2	2065.3
60°	3351.8	1672.7	1523.8	1751.0	1910.0
62.5°	2560.2	1458.1	1314.2	1605.8	1764.8
65°	1937.8	1272.5	1148.8	1472.0	1636.1
67.5°	1460.6	1112.2	1020.0	1374.8	1535.1
70°	1097.1	956.9	916.5	1314.2	1458.1
72.5°	810.5	814.2	834.5	1261.2	1371.0
75°	598.4	685.5	771.3	1198.0	1270.0
77.5°	428.0	568.1	714.5	1122.2	1147.5
80°	296.7	463.3	655.2	1022.6	1001.1
82.5°	185.6	371.2	602.2	912.8	853.4
85°	104.8	284.1	564.3	785.2	720.8
87.5°	46.8	212.1	493.6	612.3	571.9
90°	6.7	159.5	379.5	520.8	525.4
92.5°	23.3	148.5	365.9	501.7	519.2
95°	56.8	186.7	425.3	566.3	597.3
97.5°	318.0	408.2	561.0	711.1	746.2
100°	676.8	752.3	781.2	871.2	900.5
102.5°	1057.2	1123.1	1068.5	999.2	984.3
105°	1240.9	1283.9	1364.6	1136.9	1061.2



TEST NUMBER: P828056

CATALOG NUMBER: OHBL-24SE-N-UNV-L935-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1020.9	1053.8	1159.5	1197.8	1177.4
115°	872.3	885.8	994.8	1035.9	1031.3
117.5°	749.3	759.9	856.2	884.4	876.5
120°	632.7	647.8	731.9	746.8	740.1
122.5°	526.8	548.6	617.5	630.7	618.6
125°	437.7	457.7	519.4	530.9	521.3
127.5°	376.4	383.9	437.3	450.8	449.5
130°	325.6	334.8	374.3	393.6	391.9
132.5°	289.3	298.5	329.5	349.8	352.2
135°	262.6	271.0	294.1	314.3	315.1
137.5°	240.9	249.8	264.8	285.4	286.2
140°	222.6	230.2	242.8	261.2	261.2
142.5°	208.9	215.2	224.3	239.5	239.5
145°	196.8	202.2	208.9	221.5	221.1
147.5°	186.8	192.7	198.1	205.3	204.8
150°	177.7	183.9	187.2	192.8	192.3
152.5°	169.3	175.6	178.9	182.3	181.8
155°	161.8	168.1	171.8	174.8	172.2
157.5°	140.0	142.5	145.0	145.8	145.8
160°	135.0	136.7	139.2	139.2	140.0
162.5°	130.0	131.7	133.3	134.2	135.0
165°	125.8	127.5	128.3	129.2	130.0
167.5°	122.5	123.3	124.2	125.0	125.0
170°	119.2	120.0	120.8	120.8	121.7
172.5°	116.7	117.5	118.3	118.3	118.3
175°	115.0	115.0	115.8	115.8	116.7
177.5°	113.3	114.2	114.2	114.2	115.0
180°	113.3	113.3	113.3	113.3	113.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1252.6	1296.8	1406.9	1318.7	1182.5
110°	1158.0	1204.2	1313.8	1313.0	1256.0



(END OF REPORT)