

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: P828055

Luminaire Tested: **OHBL-24SE-N-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828055  
REPORT IS A COMBINATION OF REPORTS P826248 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-24SE-N-UNV-L935-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

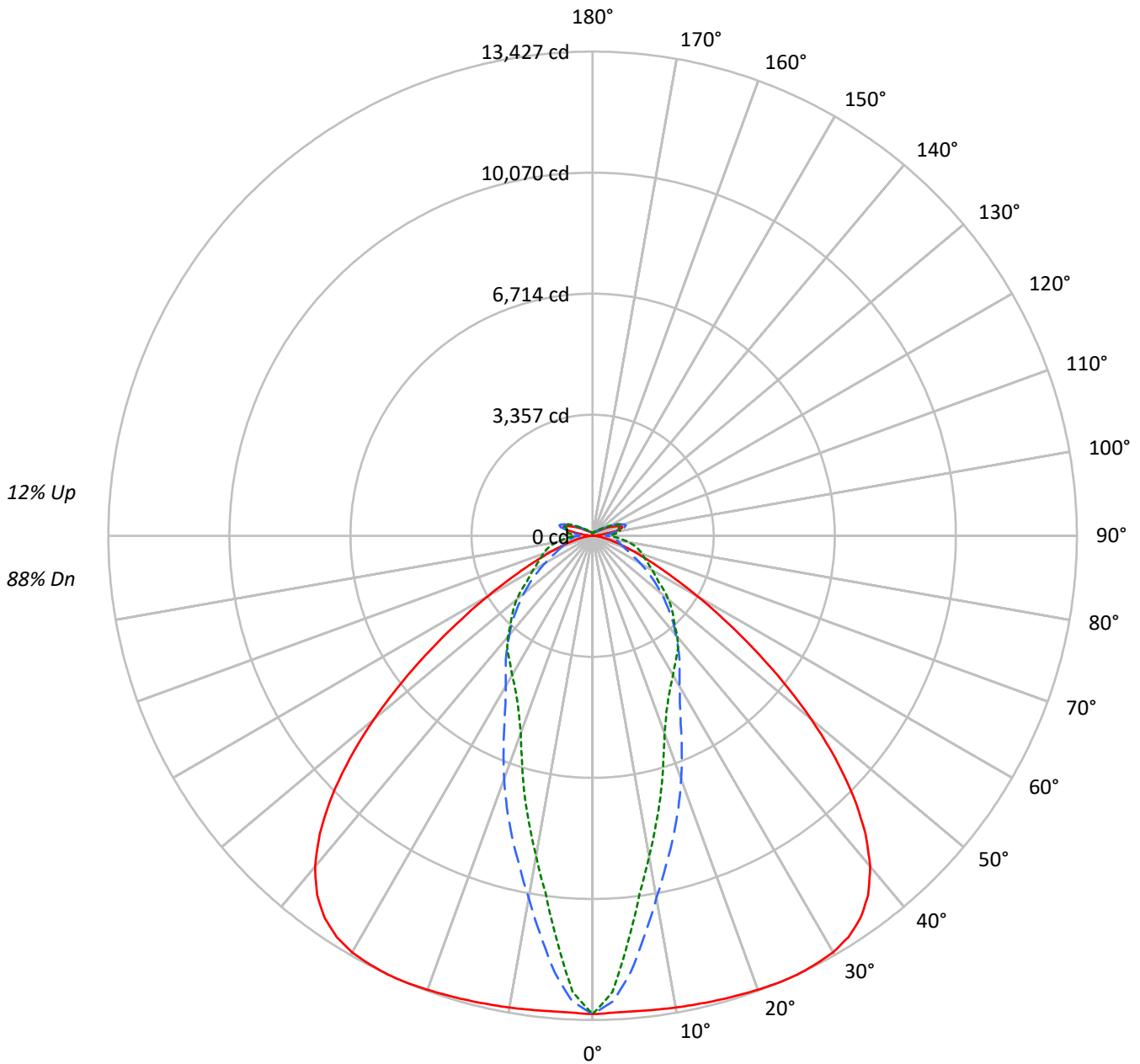
Lumens per Lamp: N/A  
Luminaire Lumens: 21593.6 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 155.4  
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1116.6	5.2
10°-20°	2626.7	12.2
20°-30°	3292.5	15.2
30°-40°	3493.7	16.2
40°-50°	3158.9	14.6
50°-60°	2290.4	10.6
60°-70°	1437.3	6.7
70°-80°	951.2	4.4
80°-90°	553.1	2.6
90°-100°	458.7	2.1
100°-110°	854.0	4.0
110°-120°	688.5	3.2
120°-130°	330.8	1.5
130°-140°	163.3	0.8
140°-150°	93.8	0.4
150°-160°	52.6	0.2
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	7035.7	32.6
0°-40°	10529.5	48.8
0°-60°	15978.7	74.0
0°-90°	18920.3	87.6
90°-120°	2001.1	9.3
90°-150°	2589.1	12.0
90°-180°	2673.0	12.4
0°-180°	21593.6	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°	4	147	366	512	522	10
95°	49	176	431	581	624	142
105°	846	882	913	779	745	803
115°	591	622	724	758	756	595
125°	297	317	374	393	389	277
135°	179	185	207	227	228	142
145°	136	141	146	156	156	86
155°	112	117	120	122	120	50
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°	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°	4.2	147.0	366.2	512.4	522.1
92.5°	16.7	136.0	361.8	506.7	530.1
95°	49.2	175.8	431.2	581.3	624.0
97.5°	230.5	315.8	531.0	679.4	722.1
100°	467.6	554.0	642.8	751.2	771.3
102.5°	719.7	767.3	743.5	765.9	769.3
105°	845.9	882.3	912.9	778.6	745.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	685.9	726.2	827.8	850.3	829.9
115°	590.6	621.7	723.9	757.6	756.3
117.5°	508.5	528.2	621.2	651.9	654.0
120°	423.5	447.8	531.1	553.4	548.4
122.5°	357.7	377.8	445.8	465.7	459.4
125°	296.8	316.8	374.4	392.6	388.8
127.5°	252.2	265.6	315.6	334.1	332.0
130°	221.4	230.6	269.3	287.8	288.6
132.5°	196.8	205.2	233.7	254.8	253.9
135°	179.2	185.2	207.4	226.8	228.4
137.5°	165.1	171.4	186.5	205.4	205.4
140°	152.6	158.5	170.3	187.0	187.8
142.5°	143.1	147.7	156.0	170.3	170.3
145°	136.0	140.6	145.6	156.5	156.1
147.5°	128.5	134.3	137.2	145.3	144.0
150°	122.7	128.1	130.6	135.3	134.8
152.5°	116.8	122.2	124.8	128.2	126.8
155°	111.8	117.2	120.2	122.3	119.8
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°	849.2	894.2	969.4	856.2	763.3
110°	785.5	828.4	919.7	902.2	829.3



(END OF REPORT)