

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: P827747

Luminaire Tested: **OHBL-24SE-A-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827747  
REPORT IS A COMBINATION OF REPORTS P826305 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-A-UNV-L930-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

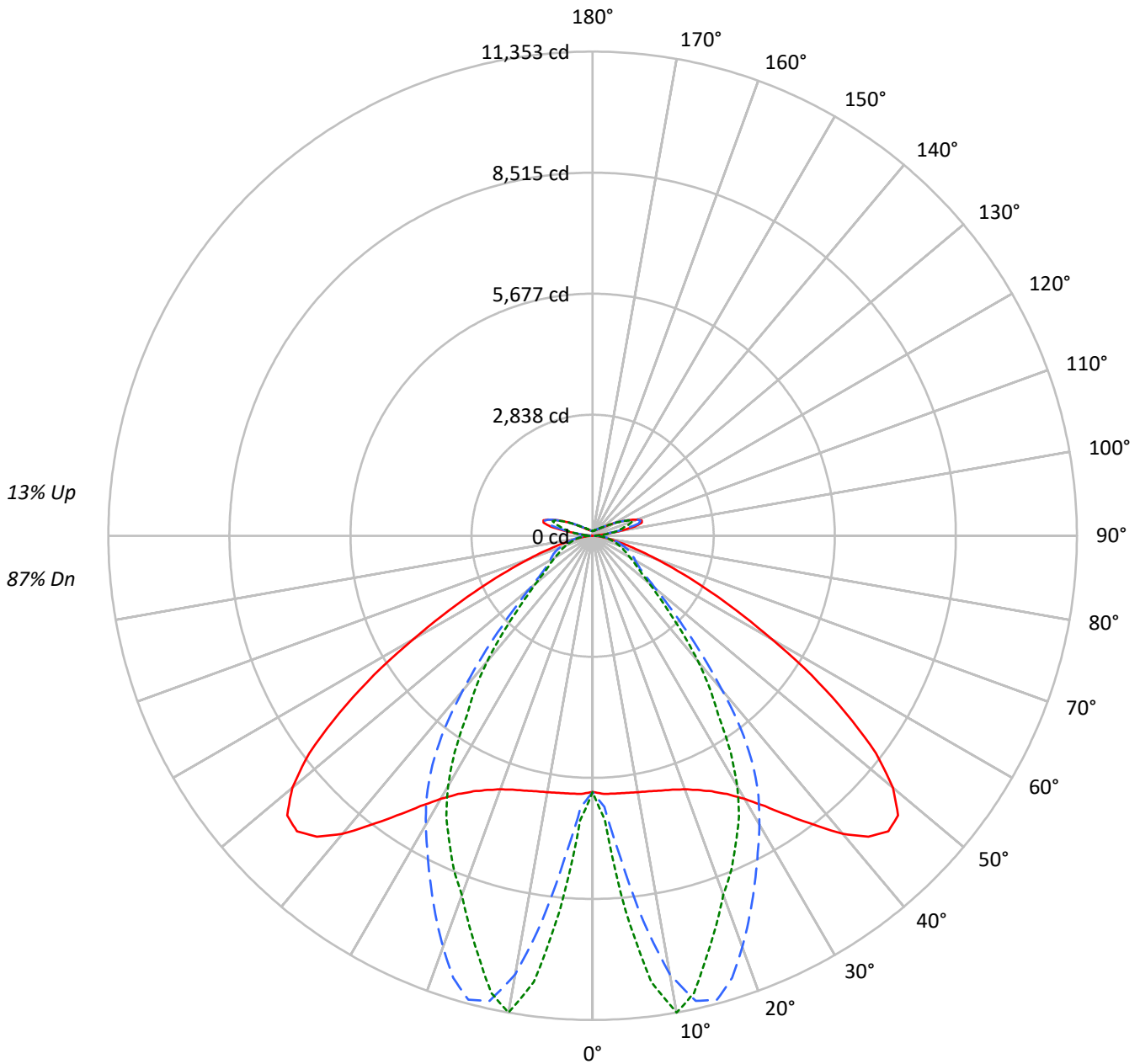
Lumens per Lamp: N/A  
Luminaire Lumens: 22174.3 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

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

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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	90	90	90	87																			
1	107	103	100	97	104	100	97	94	93	91	89	87	85	84	82	80	79	76																			
2	99	92	87	82	96	89	84	80	84	80	76	79	75	72	74	71	69	66																			
3	92	83	76	70	88	80	74	69	76	70	66	71	67	63	67	64	61	58																			
4	85	75	67	61	82	72	65	60	68	63	58	65	60	56	61	57	54	51																			
5	79	67	60	54	76	66	58	53	62	56	51	59	54	50	56	52	48	46																			
6	73	61	54	48	71	60	52	47	57	50	46	54	49	44	51	47	43	41																			
7	68	56	48	43	66	55	47	42	52	46	41	50	44	40	47	43	39	37																			
8	64	52	44	39	62	50	43	38	48	42	37	46	40	36	44	39	35	33																			
9	60	48	40	35	58	47	40	35	44	38	34	43	37	33	41	36	32	31																			
10	56	44	37	32	54	43	36	32	41	35	31	40	34	30	38	33	30	28																			

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

	0°	45°	90°
0°	10261	10261	10261
5°	10314	12906	15042
10°	10405	17793	19538
15°	10653	19383	17932
20°	11094	17985	16026
25°	11903	16174	14659
30°	13273	14564	13035
35°	15603	12747	10387
40°	18762	9707	8267
45°	21521	6614	5884
50°	21818	4536	4352
55°	18885	3570	3555
60°	14107	3341	3198
65°	9669	3351	3030
70°	6182	3232	2934
75°	3718	2991	2807
80°	2188	2629	2896
85°	1053	2258	2686



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.3	3.5
10°-20°	2768.2	12.5
20°-30°	4079.2	18.4
30°-40°	4286.6	19.3
40°-50°	3280.0	14.8
50°-60°	1980.6	8.9
60°-70°	1208.6	5.5
70°-80°	659.7	3.0
80°-90°	237.8	1.1
90°-100°	222.4	1.0
100°-110°	1007.3	4.5
110°-120°	833.6	3.8
120°-130°	394.6	1.8
130°-140°	199.8	0.9
140°-150°	116.8	0.5
150°-160°	68.5	0.3
160°-170°	35.6	0.2
170°-180°	10.9	0.0
0°-30°	7631.7	34.4
0°-40°	11918.3	53.7
0°-60°	17178.9	77.5
0°-90°	19285.0	87.0
90°-120°	2063.3	9.3
90°-150°	2774.4	12.5
90°-180°	2889.0	13.0
0°-180°	22174.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6008	6008	6008	6008	6008	
5°	6068	6510	7594	8480	8807	580
15°	6186	9635	11261	10508	10261	1759
25°	6611	11183	8990	8139	7938	3090
35°	8007	8955	6550	5454	5136	5080
45°	9801	5110	3017	2655	2543	7405
55°	7248	1733	1373	1273	1269	6405
65°	2906	1097	1010	865	820	2977
75°	774	682	626	516	495	890
85°	115	212	249	227	206	142
90°	6	40	51	58	59	11
95°	50	100	133	170	183	187
105°	1194	1192	1120	833	753	1135
115°	833	821	828	833	825	842
125°	410	424	434	427	419	386
135°	242	248	255	257	258	192
145°	176	180	184	187	188	112
155°	142	145	147	149	149	67
165°	122	124	124	125	126	35
175°	112	112	112	112	113	11
180°	110	110	110	110	110	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6007.8	6007.8	6007.8	6007.8	6007.8
2.5°	6057.0	6118.8	6362.6	6615.5	6677.1
5°	6068.1	6510.2	7594.5	8479.9	8807.1
7.5°	6080.9	7144.1	9120.9	10205.0	10552.0
10°	6105.4	7945.9	10443.5	11221.8	11353.0
12.5°	6135.8	8795.2	11171.3	11143.0	10977.6
15°	6186.3	9635.4	11261.0	10508.2	10261.1
17.5°	6239.4	10346.2	10869.9	9817.3	9602.1
20°	6325.7	10873.8	10261.6	9203.1	8958.6
22.5°	6450.1	11163.9	9623.8	8647.6	8488.1
25°	6610.6	11182.6	8990.3	8139.4	7938.4
27.5°	6825.7	10923.3	8383.1	7641.3	7429.1
30°	7118.4	10426.5	7818.8	7040.8	6777.6
32.5°	7515.9	9711.6	7237.2	6315.9	6020.6
35°	8007.4	8955.3	6549.6	5454.4	5135.5
37.5°	8543.8	8115.4	5715.2	4691.6	4505.8
40°	9120.9	7250.0	4726.1	3977.7	3844.8
42.5°	9571.2	6309.2	3807.4	3305.6	3164.1
45°	9800.8	5110.0	3017.0	2654.8	2543.3
47.5°	9711.4	3966.7	2391.8	2109.4	2076.0
50°	9189.7	2928.9	1914.6	1737.7	1723.8
52.5°	8374.1	2183.1	1581.6	1472.1	1448.1
55°	7248.0	1732.7	1373.4	1272.9	1269.1
57.5°	6085.3	1472.1	1246.6	1168.8	1141.8
60°	4845.2	1312.6	1150.6	1062.7	1007.8
62.5°	3797.9	1201.0	1079.9	960.7	909.4
65°	2905.7	1097.0	1010.4	864.6	820.5
67.5°	2166.1	997.8	925.4	763.6	737.8
70°	1578.2	896.0	828.5	679.1	658.7
72.5°	1124.8	794.5	731.6	599.8	577.3
75°	773.7	682.2	625.7	516.3	495.4
77.5°	521.9	567.5	521.5	440.8	432.1
80°	348.6	450.1	421.7	373.5	368.1
82.5°	211.5	326.6	332.9	303.8	289.1
85°	115.2	211.5	249.4	227.2	206.1
87.5°	45.1	117.2	171.9	154.3	145.3
90°	6.5	39.6	50.9	58.2	59.0
92.5°	20.2	48.5	62.2	77.6	82.4
95°	50.1	100.2	133.4	169.8	182.7
97.5°	302.3	325.0	282.1	337.1	356.5
100°	649.1	666.1	516.5	520.6	536.7
102.5°	1016.9	1030.6	814.8	674.2	649.9
105°	1193.9	1191.5	1120.4	833.4	752.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	978.1	980.5	971.6	968.4	942.5
115°	832.6	821.3	827.7	833.4	825.3
117.5°	712.1	704.1	710.5	707.3	698.4
120°	599.0	599.0	607.1	595.7	589.3
122.5°	496.3	507.6	513.3	505.2	494.7
125°	409.8	424.4	434.1	426.8	418.7
127.5°	351.6	356.5	367.8	363.8	363.8
130°	302.3	308.8	317.7	319.3	317.7
132.5°	268.4	274.8	282.9	285.3	287.8
135°	242.5	248.2	254.6	257.0	257.9
137.5°	221.5	226.3	231.2	235.2	236.0
140°	203.7	208.6	213.4	216.6	216.6
142.5°	189.2	194.0	198.0	200.5	200.5
145°	176.2	180.3	184.3	186.7	187.5
147.5°	166.5	169.8	173.8	174.6	175.4
150°	157.6	160.0	163.3	164.9	165.7
152.5°	149.5	152.0	155.2	156.0	156.8
155°	142.3	144.7	147.1	148.7	148.7
157.5°	135.8	138.2	140.6	141.5	141.5
160°	131.0	132.6	135.0	135.0	135.8
162.5°	126.1	127.7	129.3	130.1	131.0
165°	122.1	123.7	124.5	125.3	126.1
167.5°	118.8	119.6	120.4	121.2	121.2
170°	115.6	116.4	117.2	117.2	118.0
172.5°	113.2	114.0	114.8	114.8	114.8
175°	111.6	111.6	112.4	112.4	113.2
177.5°	109.9	110.7	110.7	110.7	111.6
180°	109.9	109.9	109.9	109.9	109.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1205.2	1207.6	1178.6	1037.9	897.2
110°	1112.3	1122.8	1104.2	1058.1	994.2



(END OF REPORT)