

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: P826562

Luminaire Tested: **OHBL-24SE-W-UNV-L830-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826562  
REPORT IS A COMBINATION OF REPORTS P826310 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-W-UNV-L830-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

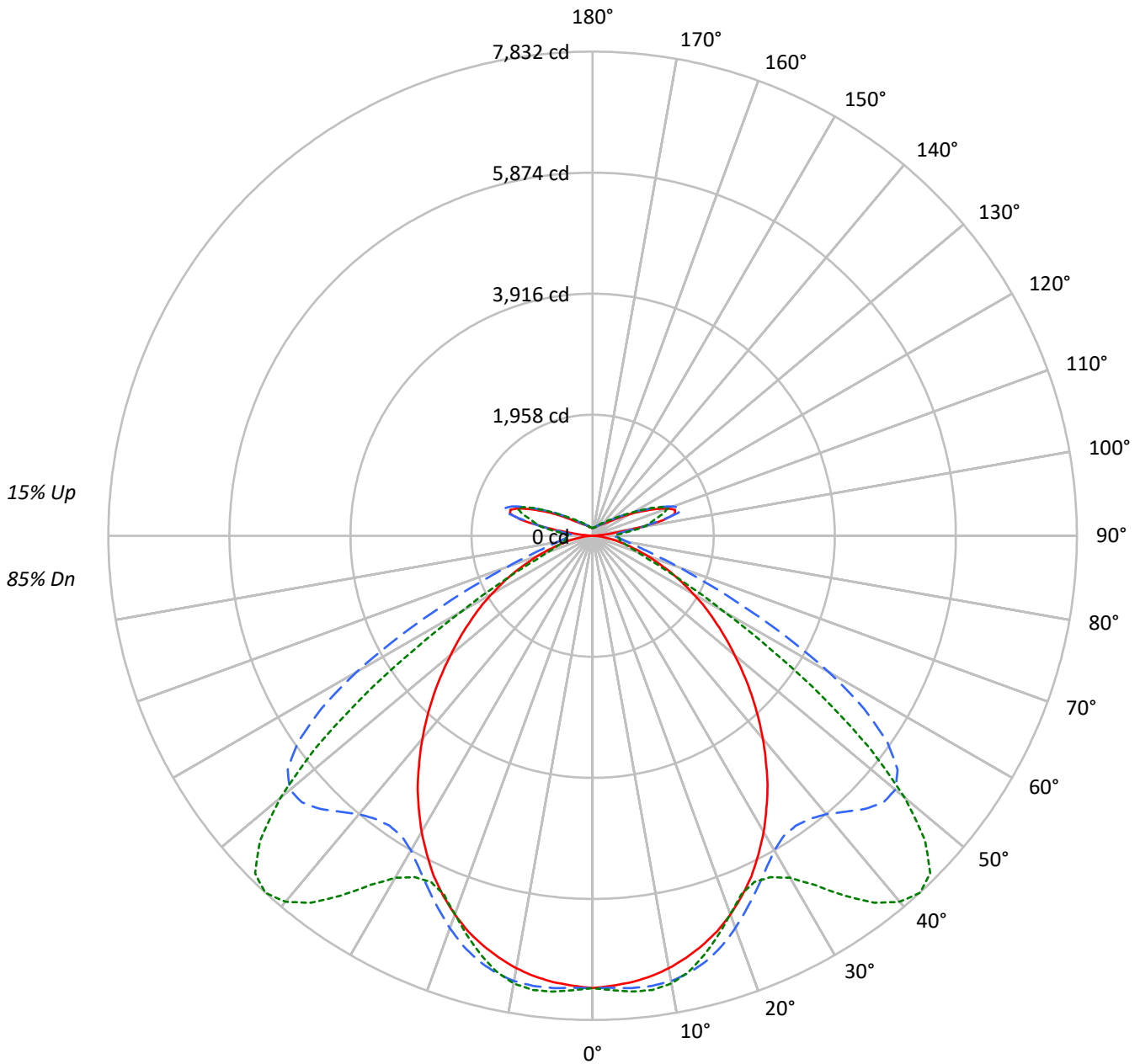
Lumens per Lamp: N/A  
Luminaire Lumens: 25239.7 lumens  
Efficiency: N/A  
Efficacy: 151.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 166.8  
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				20				20	
RC	80				70				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	103	103	103	95	95	95	88	88	88	85				
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72				
2	96	89	82	77	92	85	80	75	80	75	71	74	70	67	69	66	63	60				
3	88	78	70	64	84	75	68	62	70	64	59	65	61	56	61	57	54	51				
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43				
5	74	61	53	46	71	59	51	45	56	49	43	52	46	42	49	44	40	37				
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33				
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29				
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	37	31	27	25				
9	54	41	33	28	52	40	32	27	38	31	26	36	30	25	34	28	25	23				
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20				

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

	0°	45°	90°
0°	12496	12496	12496
5°	12320	12479	12639
10°	12106	12460	12654
15°	11811	12253	12248
20°	11430	11832	11648
25°	10942	11322	11414
30°	10316	10943	12283
35°	9612	11145	14374
40°	8809	12071	16617
45°	7975	13692	17861
50°	7113	15140	16621
55°	6301	15120	12700
60°	5478	12791	7765
65°	4617	8832	4703
70°	3661	5709	3396
75°	2685	4091	3148
80°	1812	3591	3552
85°	1083	3944	5615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.2	2.8
10°-20°	1979.8	7.8
20°-30°	2897.1	11.5
30°-40°	3762.5	14.9
40°-50°	4594.4	18.2
50°-60°	4046.1	16.0
60°-70°	2108.5	8.4
70°-80°	904.2	3.6
80°-90°	441.4	1.7
90°-100°	460.0	1.8
100°-110°	1286.4	5.1
110°-120°	1034.7	4.1
120°-130°	495.0	2.0
130°-140°	250.4	1.0
140°-150°	144.3	0.6
150°-160°	82.3	0.3
160°-170°	41.0	0.2
170°-180°	12.5	0.0
0°-30°	5576.0	22.1
0°-40°	9338.5	37.0
0°-60°	17979.1	71.2
0°-90°	21433.1	84.9
90°-120°	2781.1	11.0
90°-150°	3670.7	14.5
90°-180°	3807.0	15.1
0°-180°	25239.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7316	7316	7316	7316	7316	
5°	7248	7304	7343	7408	7400	687
15°	6858	7051	7119	7065	7008	1931
25°	6077	6402	6293	6175	6181	2789
35°	4933	5454	5727	6679	7106	3075
45°	3632	4570	6246	7562	7720	2801
55°	2418	4003	5817	5100	4533	2170
65°	1388	2773	2663	1481	1274	1373
75°	559	1298	856	586	556	609
85°	118	462	436	426	431	132
90°	9	213	346	395	404	13
95°	61	213	382	464	486	217
105°	1381	1427	1438	1138	1048	1313
115°	968	977	1044	1071	1065	979
125°	483	504	553	561	553	453
135°	289	295	318	338	341	228
145°	216	217	223	236	240	137
155°	176	179	179	181	181	80
165°	140	142	143	144	145	40
175°	128	128	129	129	130	12
180°	127	127	127	127	127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7316.3	7316.3	7316.3	7316.3	7316.3
2.5°	7284.7	7316.3	7317.9	7362.1	7357.3
5°	7248.4	7303.7	7343.1	7407.8	7400.0
7.5°	7188.4	7275.3	7344.7	7415.7	7409.4
10°	7103.2	7221.6	7313.1	7371.5	7352.6
12.5°	6992.7	7149.0	7238.9	7251.5	7215.2
15°	6858.5	7051.1	7118.9	7065.3	7008.5
17.5°	6707.0	6932.7	6956.4	6839.6	6768.6
20°	6517.5	6774.8	6751.2	6590.2	6511.3
22.5°	6307.6	6601.2	6525.4	6356.5	6280.8
25°	6077.2	6402.3	6293.4	6175.1	6181.3
27.5°	5807.2	6176.6	6070.9	6124.5	6225.5
30°	5532.6	5939.8	5875.2	6187.6	6386.6
32.5°	5231.1	5696.8	5755.1	6372.4	6697.5
35°	4932.8	5453.7	5726.7	6678.6	7106.4
37.5°	4602.9	5207.4	5772.5	7032.1	7480.5
40°	4282.4	4967.5	5876.7	7349.4	7728.3
42.5°	3955.7	4752.8	6051.9	7537.2	7832.4
45°	3632.1	4569.7	6246.1	7562.5	7720.4
47.5°	3308.5	4415.0	6380.3	7362.1	7289.4
50°	2995.9	4277.7	6389.7	6880.6	6583.9
52.5°	2703.9	4151.4	6216.1	6113.5	5652.6
55°	2418.2	4003.1	5816.7	5100.1	4533.4
57.5°	2157.8	3797.9	5201.1	4011.0	3392.2
60°	1881.6	3520.0	4405.5	2934.4	2446.6
62.5°	1627.4	3174.3	3513.7	2042.6	1758.5
65°	1387.5	2773.4	2662.9	1480.6	1273.8
67.5°	1133.3	2358.2	1965.2	1079.7	947.1
70°	934.5	1973.2	1463.3	839.7	762.4
72.5°	730.9	1606.9	1093.9	681.9	639.3
75°	558.8	1297.5	855.6	585.6	555.6
77.5°	412.0	1026.0	688.2	517.8	489.3
80°	288.8	808.2	576.1	462.5	451.4
82.5°	194.1	625.1	490.9	440.4	442.0
85°	118.4	462.5	435.7	426.2	430.9
87.5°	56.9	328.3	374.1	388.3	393.1
90°	9.0	212.9	345.9	395.3	404.1
92.5°	23.3	183.7	324.2	382.9	396.4
95°	60.9	213.3	382.5	463.8	486.5
97.5°	351.2	454.6	530.0	634.3	661.3
100°	752.0	836.2	777.8	821.9	845.2
102.5°	1175.4	1248.1	1102.2	974.9	950.2
105°	1380.8	1426.9	1438.2	1137.8	1047.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1135.5	1166.6	1222.8	1241.1	1214.5
115°	968.0	977.0	1044.5	1071.4	1065.3
117.5°	830.9	838.9	898.5	913.7	905.1
120°	700.6	713.2	768.3	774.2	768.4
122.5°	582.4	603.4	652.5	660.5	650.0
125°	482.9	504.4	553.4	560.8	553.0
127.5°	414.3	421.4	469.2	480.4	481.9
130°	357.5	365.0	403.6	421.3	422.6
132.5°	318.4	325.9	357.2	375.9	381.8
135°	288.7	295.2	318.3	338.5	341.0
137.5°	264.5	270.0	286.7	307.1	311.2
140°	244.0	249.6	261.5	280.9	282.5
142.5°	228.8	232.8	242.2	257.6	259.2
145°	215.5	217.0	223.2	235.5	239.5
147.5°	204.4	206.5	211.1	218.4	220.9
150°	194.1	196.9	197.5	202.5	206.6
152.5°	184.8	187.6	188.2	189.1	193.2
155°	176.4	179.2	178.9	180.7	180.7
157.5°	156.3	159.1	161.9	162.8	162.8
160°	150.8	152.6	155.4	155.4	156.3
162.5°	145.2	147.0	148.9	149.8	150.8
165°	140.5	142.4	143.3	144.2	145.2
167.5°	136.8	137.7	138.7	139.6	139.6
170°	133.1	134.0	134.9	134.9	135.9
172.5°	130.3	131.2	132.1	132.1	132.1
175°	128.4	128.4	129.3	129.3	130.3
177.5°	126.6	127.5	127.5	127.5	128.4
180°	126.6	126.6	126.6	126.6	126.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1395.4	1439.2	1489.4	1354.2	1195.5
110°	1288.4	1335.2	1387.9	1360.2	1289.8



(END OF REPORT)