

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: P826621

Luminaire Tested: **OHBL-48SE-NL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P826621  
REPORT IS A COMBINATION OF REPORTS P826261 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-48SE-NL-UNV-L830-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

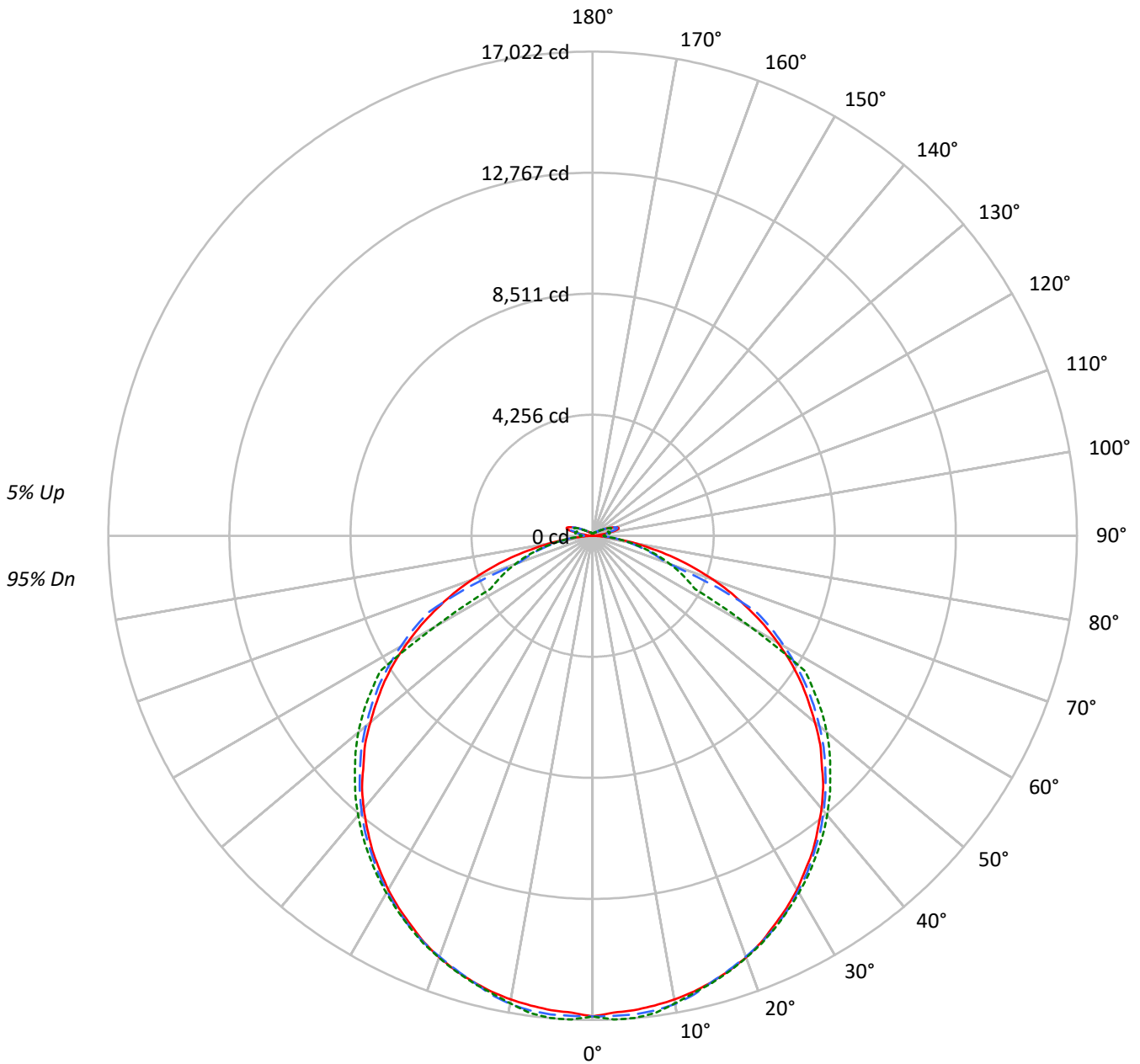
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49695.7 lumens  
Efficiency: N/A  
Efficacy: 162.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 306.2  
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80																			
2	99	91	84	79	95	88	82	77	84	79	75	80	76	72	76	73	70	68																			
3	90	80	72	66	87	78	70	65	74	68	63	71	66	61	68	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	57	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	47	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

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

	0°	45°	90°
0°	28862	28862	28862
5°	28553	28808	29113
10°	28410	28674	28813
15°	28251	28238	28561
20°	28054	28000	28420
25°	27696	27822	28289
30°	27390	27514	28166
35°	27020	27147	28056
40°	26574	26801	27972
45°	25952	26316	27798
50°	25286	25769	27688
55°	24479	25076	27218
60°	23268	24051	21027
65°	21532	22735	14005
70°	19296	11688	13390
75°	16019	10563	12484
80°	11250	8836	10930
85°	4514	7080	9458



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1605.4	3.2
10°-20°	4596.7	9.2
20°-30°	6994.2	14.1
30°-40°	8504.0	17.1
40°-50°	8941.5	18.0
50°-60°	8164.7	16.4
60°-70°	5234.0	10.5
70°-80°	2472.5	5.0
80°-90°	691.3	1.4
90°-100°	397.3	0.8
100°-110°	798.7	1.6
110°-120°	656.3	1.3
120°-130°	308.2	0.6
130°-140°	154.2	0.3
140°-150°	89.4	0.2
150°-160°	52.1	0.1
160°-170°	27.0	0.1
170°-180°	8.2	0.0
0°-30°	13196.2	26.6
0°-40°	21700.2	43.7
0°-60°	38806.4	78.1
0°-90°	47204.1	95.0
90°-120°	1852.3	3.7
90°-150°	2404.2	4.8
90°-180°	2492.0	5.0
0°-180°	49695.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16898	16898	16898	16898	16898	
5°	16741	16806	16892	16984	17020	###
15°	16234	16355	16231	16255	16266	4583
25°	15107	15131	15184	15208	15196	6971
35°	13503	13423	13577	13743	13705	8439
45°	11389	11368	11561	11834	11813	8803
55°	8925	8857	9156	9462	9486	7959
65°	6013	6013	6363	3650	3662	5962
75°	2971	3028	1966	2070	2078	3132
85°	388	492	614	664	628	574
90°	5	198	317	381	382	20
95°	58	189	356	476	504	158
105°	948	956	833	607	558	901
115°	659	671	680	669	646	660
125°	314	331	338	337	334	295
135°	186	190	196	198	200	147
145°	135	139	141	142	143	86
155°	108	110	112	113	113	51
165°	93	94	95	95	95	27
175°	84	85	85	86	86	8
180°	84	84	84	84	84	



TEST NUMBER: P826621

CATALOG NUMBER: OHBL-48SE-NL-UNV-L830-CD-UPL24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16898.1	16898.1	16898.1	16898.1	16898.1
2.5°	16779.5	16836.0	16898.1	16978.2	17022.5
5°	16740.9	16806.1	16892.2	16984.1	17019.6
7.5°	16658.0	16749.6	16832.8	16898.1	16918.9
10°	16554.1	16663.9	16711.4	16705.4	16690.6
12.5°	16414.7	16530.6	16515.8	16447.4	16459.3
15°	16233.9	16355.4	16231.0	16254.6	16266.5
17.5°	16020.4	16139.1	15993.7	16041.1	16044.3
20°	15771.4	15860.3	15747.6	15786.2	15786.2
22.5°	15472.0	15534.1	15486.8	15513.4	15519.3
25°	15107.2	15130.7	15184.2	15208.0	15196.1
27.5°	14757.5	14727.7	14831.6	14887.8	14858.0
30°	14368.9	14321.4	14443.0	14534.9	14499.5
32.5°	13924.0	13894.5	14033.9	14143.4	14122.8
35°	13503.1	13423.0	13577.2	13743.2	13704.6
37.5°	13004.9	12957.4	13132.3	13307.5	13286.8
40°	12518.6	12438.6	12637.2	12844.7	12824.1
42.5°	11996.9	11901.7	12118.3	12367.6	12343.7
45°	11388.8	11368.0	11560.8	11833.6	11812.9
47.5°	10849.4	10745.6	11015.3	11279.3	11303.1
50°	10196.8	10158.5	10404.6	10724.8	10748.4
52.5°	9559.6	9532.9	9790.7	10113.9	10155.4
55°	8924.8	8856.7	9156.2	9461.6	9485.5
57.5°	8246.1	8174.8	8480.3	8812.5	8862.7
60°	7519.4	7451.2	7786.2	8094.8	6437.3
62.5°	6793.0	6745.6	7095.6	5025.9	4050.5
65°	6013.2	6013.2	6362.9	3650.0	3661.9
67.5°	5284.0	5236.5	4744.3	3279.3	3279.3
70°	4501.0	4518.9	2733.6	2873.4	2876.2
72.5°	3715.2	3780.6	2360.4	2472.8	2478.7
75°	2971.0	3027.5	1965.8	2069.6	2078.5
77.5°	2182.4	1678.3	1580.3	1660.7	1663.5
80°	1532.9	1058.5	1209.8	1286.8	1277.9
82.5°	895.3	741.2	886.5	943.0	939.9
85°	388.3	492.3	613.7	664.2	628.5
87.5°	124.3	305.4	382.4	412.1	409.1
90°	4.7	197.7	316.6	380.7	381.6
92.5°	15.8	172.2	304.3	391.6	406.5
95°	58.1	189.3	355.9	476.2	504.1
97.5°	256.3	333.0	430.7	560.2	596.9
100°	519.6	595.6	532.1	613.4	625.0
102.5°	808.6	830.5	631.3	610.4	606.1
105°	948.1	955.8	832.8	606.6	558.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	769.8	786.9	780.8	750.6	699.8
115°	658.7	671.2	680.0	669.3	645.8
117.5°	550.9	551.8	555.5	554.6	555.5
120°	456.0	466.2	474.6	469.9	464.3
122.5°	382.5	393.6	399.2	397.3	391.8
125°	314.5	331.3	337.8	336.9	334.1
127.5°	266.1	278.2	287.5	288.5	287.5
130°	231.7	239.2	248.5	249.4	250.3
132.5°	205.7	212.2	218.7	222.4	221.5
135°	186.1	189.8	196.3	198.2	200.1
137.5°	170.3	173.1	178.7	181.5	181.5
140°	156.3	160.1	164.7	166.6	167.5
142.5°	144.2	148.0	151.7	153.5	153.5
145°	134.9	138.7	141.4	142.4	143.3
147.5°	126.6	130.3	132.1	134.0	134.0
150°	120.0	121.9	124.7	125.6	126.6
152.5°	113.5	115.4	118.2	119.1	119.1
155°	107.9	109.8	111.7	112.6	112.6
157.5°	103.3	105.2	107.0	107.9	107.9
160°	99.6	100.5	102.4	103.3	103.3
162.5°	95.8	96.8	97.7	98.6	98.6
165°	93.1	94.0	94.9	94.9	94.9
167.5°	90.3	90.3	91.2	92.1	92.1
170°	87.5	88.4	88.4	89.3	89.3
172.5°	85.6	86.5	86.5	86.5	87.5
175°	83.8	84.7	84.7	85.6	85.6
177.5°	83.8	83.8	83.8	83.8	83.8
180°	83.8	83.8	83.8	83.8	83.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	951.9	970.3	909.6	705.1	573.6
110°	882.4	899.6	866.4	783.2	670.9



(END OF REPORT)