

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: P827817

Luminaire Tested: **OHBL-48SE-A-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827817
REPORT IS A COMBINATION OF REPORTS P826257 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-A-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

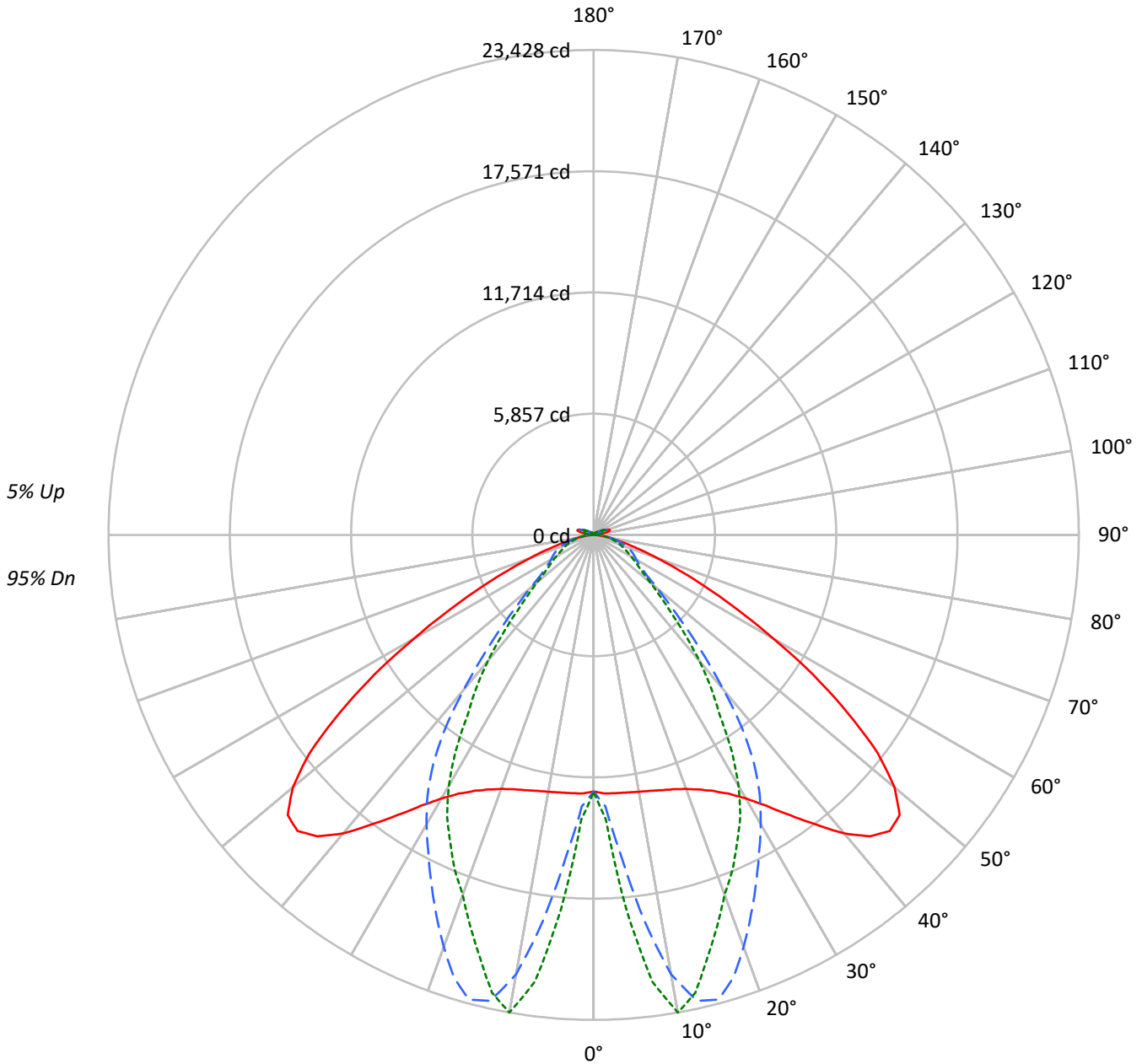
Lumens per Lamp: N/A
Luminaire Lumens: 41740.1 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 306.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P827817

CATALOG NUMBER: OHBL-48SE-A-UNV-L930-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827817

CATALOG NUMBER: OHBL-48SE-A-UNV-L930-CD-UPL24

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	109	109	109	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	89	84	98	92	87	82	88	84	80	84	80	77	80	78	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	55	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	44	53	47	43	52	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21175	21175	21175
5°	21283	26632	31041
10°	21473	36718	40319
15°	21984	39999	37005
20°	22893	37113	33071
25°	24563	33377	30251
30°	27389	30054	26899
35°	32199	26304	21435
40°	38717	20032	17059
45°	44411	13648	12142
50°	45023	9362	8980
55°	38972	7367	7336
60°	29111	6894	6601
65°	19954	6916	6252
70°	12758	6670	6055
75°	7672	6174	5793
80°	4514	5425	5978
85°	2173	4659	5542



TEST NUMBER: P827817

CATALOG NUMBER: OHBL-48SE-A-UNV-L930-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1618.5	3.9
10°-20°	5712.6	13.7
20°-30°	8417.8	20.2
30°-40°	8845.8	21.2
40°-50°	6768.6	16.2
50°-60°	4087.2	9.8
60°-70°	2494.1	6.0
70°-80°	1361.3	3.3
80°-90°	482.8	1.2
90°-100°	187.4	0.4
100°-110°	650.6	1.6
110°-120°	558.1	1.3
120°-130°	267.8	0.6
130°-140°	134.0	0.3
140°-150°	77.7	0.2
150°-160°	45.3	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	15748.9	37.7
0°-40°	24594.7	58.9
0°-60°	35450.5	84.9
0°-90°	39788.7	95.3
90°-120°	1396.2	3.3
90°-150°	1875.5	4.5
90°-180°	1951.0	4.7
0°-180°	41740.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12398	12398	12398	12398	12398	
5°	12522	13434	15672	17499	18174	###
15°	12766	19884	23238	21685	21175	3630
25°	13642	23077	18552	16796	16382	6376
35°	16524	18480	13516	11256	10598	10482
45°	20225	10545	6226	5478	5248	15281
55°	14957	3576	2834	2627	2619	13217
65°	5996	2264	2085	1784	1693	6144
75°	1596	1408	1291	1065	1022	1837
85°	238	436	515	469	425	294
90°	4	28	38	50	56	16
95°	43	90	139	184	209	133
105°	811	802	682	486	446	769
115°	559	565	565	563	559	564
125°	273	288	293	293	290	256
135°	162	165	171	172	174	128
145°	117	120	123	124	124	75
155°	94	95	97	98	98	44
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



TEST NUMBER: P827817

CATALOG NUMBER: OHBL-48SE-A-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12397.7	12397.7	12397.7	12397.7	12397.7
2.5°	12499.3	12626.8	13129.8	13651.8	13778.8
5°	12522.1	13434.4	15672.0	17499.3	18174.4
7.5°	12548.6	14742.7	18822.0	21059.1	21775.2
10°	12599.2	16397.2	21551.4	23157.5	23428.0
12.5°	12661.9	18150.0	23053.3	22994.7	22653.5
15°	12766.1	19883.6	23238.2	21684.8	21174.9
17.5°	12875.6	21350.4	22431.2	20258.9	19815.1
20°	13053.7	22439.2	21176.0	18991.5	18487.0
22.5°	13310.5	23037.8	19859.7	17845.3	17516.3
25°	13641.8	23076.6	18552.4	16796.4	16381.8
27.5°	14085.6	22541.3	17299.4	15768.8	15330.7
30°	14689.6	21516.3	16135.1	14529.5	13986.2
32.5°	15509.9	20041.0	14934.7	13033.6	12424.2
35°	16524.3	18480.1	13515.7	11255.7	10597.6
37.5°	17631.1	16747.0	11793.7	9681.6	9298.3
40°	18822.0	14961.2	9752.8	8208.4	7934.1
42.5°	19751.2	13019.7	7857.0	6821.4	6529.6
45°	20224.9	10545.0	6225.9	5478.5	5248.3
47.5°	20040.4	8185.6	4935.7	4353.0	4283.9
50°	18963.9	6044.2	3951.1	3585.8	3557.2
52.5°	17280.7	4505.1	3263.7	3037.7	2988.3
55°	14957.0	3575.7	2834.2	2626.8	2618.8
57.5°	12557.7	3037.7	2572.6	2412.0	2356.2
60°	9998.4	2708.6	2374.2	2193.0	2079.8
62.5°	7837.4	2478.5	2228.6	1982.4	1876.6
65°	5996.3	2263.7	2085.1	1784.2	1693.2
67.5°	4470.0	2059.0	1909.6	1575.8	1522.6
70°	3256.8	1849.0	1709.7	1401.4	1359.4
72.5°	2321.1	1639.5	1509.8	1237.6	1191.4
75°	1596.5	1407.8	1291.3	1065.4	1022.3
77.5°	1077.1	1171.2	1076.1	909.6	891.5
80°	719.3	928.8	870.3	770.9	759.7
82.5°	436.5	674.2	686.8	626.8	596.5
85°	237.6	436.5	514.6	468.9	425.3
87.5°	93.0	241.9	354.6	318.5	299.8
90°	4.0	27.5	38.0	50.1	55.8
92.5°	13.7	36.4	58.2	82.4	93.0
95°	42.8	89.7	139.0	184.3	208.6
97.5°	217.4	235.2	253.0	306.4	333.0
100°	446.2	473.7	382.3	404.2	411.4
102.5°	689.5	685.5	499.6	447.8	441.4
105°	810.8	801.9	682.2	485.8	446.2



TEST NUMBER: P827817

CATALOG NUMBER: OHBL-48SE-A-UNV-L930-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	653.1	662.8	649.9	631.3	605.4
115°	559.4	565.0	565.0	563.4	558.6
117.5°	478.5	479.3	482.6	481.8	482.6
120°	396.1	405.0	412.2	408.2	403.4
122.5°	332.2	341.9	346.8	345.2	340.3
125°	273.2	287.8	293.4	292.6	290.2
127.5°	231.2	241.7	249.8	250.6	249.8
130°	201.3	207.7	215.8	216.6	217.4
132.5°	178.6	184.3	190.0	193.2	192.4
135°	161.7	164.9	170.6	172.2	173.8
137.5°	147.9	150.4	155.2	157.6	157.6
140°	135.8	139.0	143.1	144.7	145.5
142.5°	125.3	128.5	131.8	133.4	133.4
145°	117.2	120.4	122.9	123.7	124.5
147.5°	109.9	113.2	114.8	116.4	116.4
150°	104.3	105.9	108.3	109.1	109.9
152.5°	98.6	100.2	102.7	103.5	103.5
155°	93.8	95.4	97.0	97.8	97.8
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	814.0	817.2	754.2	589.3	490.7
110°	750.9	758.2	721.8	659.6	580.4



(END OF REPORT)