

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: P827820

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827820
REPORT IS A COMBINATION OF REPORTS P826260 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-N-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

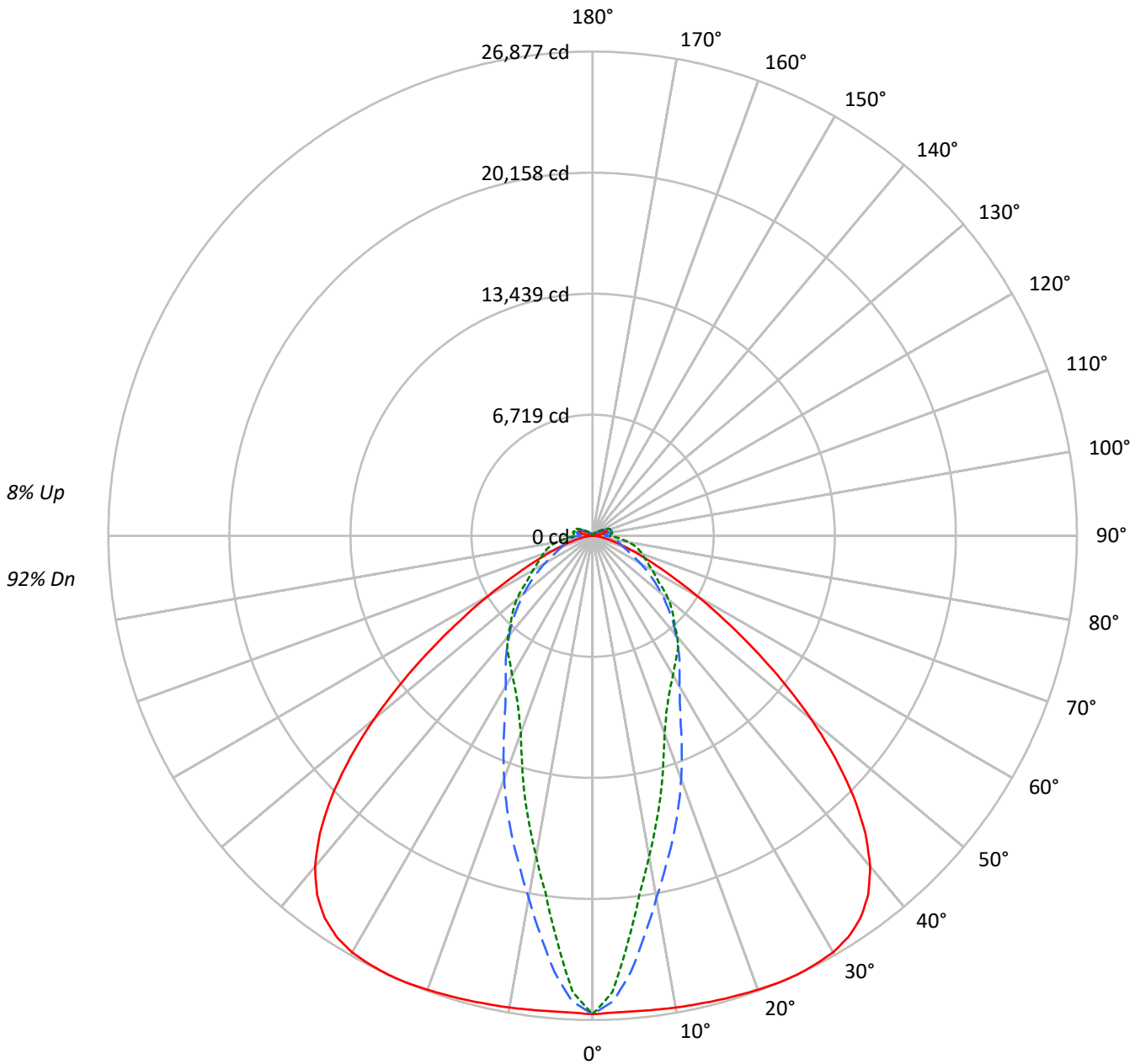
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41142.7 lumens
Efficiency: N/A
Efficacy: 134.4 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: Direct

Input Watts (W): 306.2
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

TEST NUMBER: P827820
CATALOG NUMBER: OHBL-48SE-N-UNV-L930-CD-UPL24

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	117	117	117	117	114	114	114	114	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	95	92	89	89	87	85	85	83	81	79																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	68																			
3	91	82	74	69	88	80	73	67	76	70	65	72	67	63	68	65	61	59																			
4	84	74	66	60	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	56	51	59	54	49	57	52	48	46																			
6	73	61	53	47	71	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	42	52	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	40	36	34																			
9	60	47	40	35	58	47	39	34	45	38	34	43	37	33	42	37	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45348	45348	45348
5°	45037	41298	38584
10°	45323	34787	31090
15°	45980	29751	25644
20°	47029	25155	20849
25°	48394	20822	18366
30°	49779	17938	17161
35°	50496	16347	16453
40°	49287	14767	15718
45°	44984	13344	14668
50°	37604	11789	13894
55°	28260	10326	12502
60°	19534	8856	12134
65°	12908	7627	12092
70°	8602	7158	13000
75°	5756	7382	14406
80°	3727	8175	15768
85°	1918	10226	18802



TEST NUMBER: P827820

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2235.0	5.4
10°-20°	5257.8	12.8
20°-30°	6590.5	16.0
30°-40°	6993.3	17.0
40°-50°	6323.1	15.4
50°-60°	4584.6	11.1
60°-70°	2877.1	7.0
70°-80°	1904.0	4.6
80°-90°	1101.9	2.7
90°-100°	718.8	1.7
100°-110°	1017.4	2.5
110°-120°	784.5	1.9
120°-130°	377.4	0.9
130°-140°	184.4	0.4
140°-150°	105.2	0.3
150°-160°	57.2	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	14083.3	34.2
0°-40°	21076.7	51.2
0°-60°	31984.4	77.7
0°-90°	37867.3	92.0
90°-120°	2520.7	6.1
90°-150°	3187.6	7.7
90°-180°	3275.0	8.0
0°-180°	41142.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26551	26551	26551	26551	26551	
5°	26498	25818	24302	23175	22591	###
15°	26700	21762	17284	15372	14674	7572
25°	26877	16827	11574	10272	9946	12417
35°	25914	11187	8400	8137	8134	16109
45°	20486	7086	6088	6234	6340	15606
55°	10846	4392	3972	4308	4463	9799
65°	3879	2547	2300	2946	3275	4036
75°	1198	1372	1544	2398	2542	1335
85°	210	569	1130	1572	1443	251
90°	4	265	692	972	986	16
95°	53	256	715	968	1027	142
105°	831	913	1102	1042	1017	790
115°	587	643	848	917	920	591
125°	304	328	438	475	470	283
135°	187	195	234	271	272	148
145°	148	153	161	182	180	93
155°	124	133	137	141	136	53
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



TEST NUMBER: P827820

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26550.8	26550.8	26550.8	26550.8	26550.8
2.5°	26495.3	26343.7	25871.1	25583.0	25340.4
5°	26497.8	25818.0	24301.9	23174.8	22591.1
7.5°	26535.7	25024.5	22292.9	20647.9	20006.0
10°	26593.8	24041.6	20417.9	18664.2	18065.3
12.5°	26636.8	22934.8	18767.8	16966.1	16309.1
15°	26700.0	21762.3	17284.4	15371.6	14674.1
17.5°	26758.1	20658.0	15818.8	13820.0	13044.2
20°	26816.2	19467.7	14353.2	12293.7	11654.4
22.5°	26871.8	18211.8	12922.9	11108.5	10671.4
25°	26876.8	16827.1	11573.6	10272.1	9946.1
27.5°	26811.1	15391.8	10479.3	9572.1	9370.0
30°	26697.4	13999.4	9630.2	9066.8	8922.7
32.5°	26414.4	12579.3	8973.2	8579.1	8495.7
35°	25914.0	11186.9	8399.6	8136.8	8134.3
37.5°	25125.7	9951.2	7778.0	7732.5	7788.1
40°	23960.7	8869.7	7189.2	7310.5	7310.5
42.5°	22406.6	7929.7	6656.1	6779.9	6747.0
45°	20486.2	7085.6	6087.5	6234.0	6340.2
47.5°	18259.8	6342.7	5506.3	5789.3	5935.8
50°	15839.0	5635.1	4975.6	5336.9	5503.7
52.5°	13301.9	4980.6	4457.6	4872.0	5005.9
55°	10845.7	4391.8	3972.4	4308.5	4462.6
57.5°	8622.0	3830.9	3497.3	3815.7	4134.1
60°	6709.1	3348.2	3050.1	3504.9	3823.3
62.5°	5124.7	2918.6	2630.6	3214.3	3532.7
65°	3878.9	2547.2	2299.5	2946.5	3275.0
67.5°	2923.7	2226.2	2041.8	2751.9	3072.8
70°	2195.9	1915.4	1834.6	2630.6	2918.6
72.5°	1622.3	1629.9	1670.3	2524.4	2744.3
75°	1197.8	1372.1	1544.0	2398.1	2542.1
77.5°	856.7	1137.2	1430.3	2246.4	2297.0
80°	593.8	927.4	1311.5	2046.9	2003.9
82.5°	371.4	742.9	1205.4	1827.0	1708.3
85°	209.8	568.6	1129.6	1571.8	1442.9
87.5°	93.5	424.5	988.0	1225.6	1144.7
90°	4.0	265.1	692.5	972.4	985.7
92.5°	18.8	233.4	662.1	926.4	962.2
95°	52.9	256.5	715.2	967.7	1027.3
97.5°	230.1	381.8	793.8	1034.1	1091.1
100°	461.4	605.1	880.2	1073.8	1106.4
102.5°	707.2	806.8	956.9	1056.8	1070.6
105°	831.0	913.1	1101.7	1041.8	1017.3



TEST NUMBER: P827820

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.4	748.8	965.8	1030.5	1017.4
115°	587.2	643.4	848.0	917.2	919.9
117.5°	508.8	547.6	730.2	792.6	795.9
120°	426.4	465.6	624.5	673.5	668.7
122.5°	362.5	392.4	523.6	565.0	557.6
125°	303.5	328.2	437.5	474.6	469.6
127.5°	259.0	274.5	366.0	402.2	398.8
130°	229.1	240.6	309.3	345.5	346.3
132.5°	203.9	214.6	265.8	304.4	303.6
135°	187.0	195.2	233.8	270.7	272.3
137.5°	173.2	183.2	208.2	243.6	243.6
140°	161.1	169.3	188.6	220.5	221.3
142.5°	153.1	158.8	172.2	199.1	199.1
145°	147.5	153.3	160.8	181.8	180.1
147.5°	140.2	148.6	152.7	166.9	164.4
150°	134.6	143.8	146.2	154.6	152.9
152.5°	128.9	138.1	140.6	146.4	143.9
155°	124.1	133.3	137.4	140.7	135.7
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°	834.2	920.9	1138.3	1087.1	1006.1
110°	773.7	851.7	1073.1	1104.3	1042.8



(END OF REPORT)