

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: P827816

Luminaire Tested: **OHBL-48HE-W-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827816
REPORT IS A COMBINATION OF REPORTS P826256 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-48HE-W-UNV-L930-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

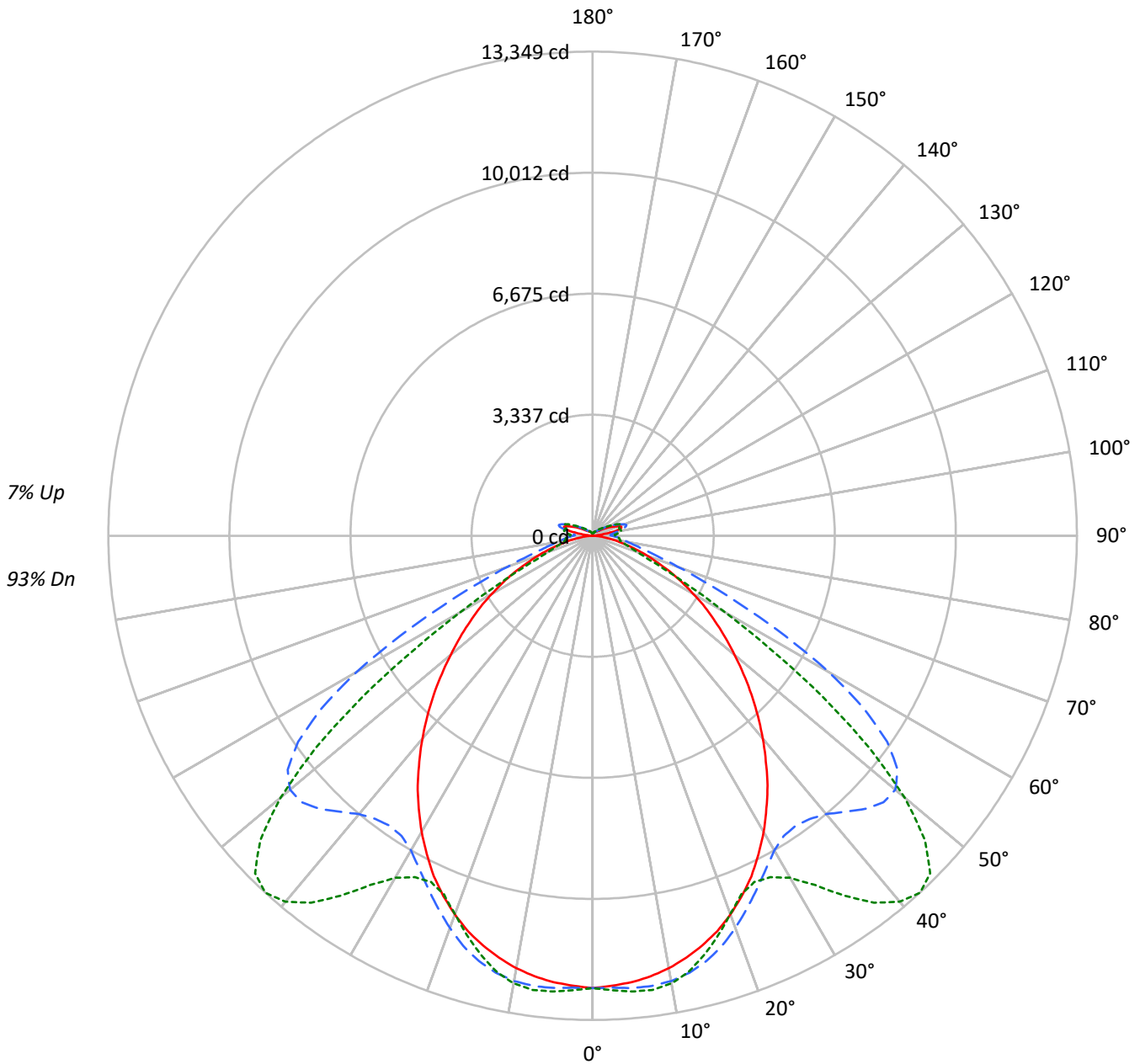
Lumens per Lamp: N/A
Luminaire Lumens: 39292.6 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 283.4
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

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19720	19720	19720
5°	19454	19702	19945
10°	19129	19680	19969
15°	18675	19364	19329
20°	18085	18707	18382
25°	17326	17910	18013
30°	16346	17319	19384
35°	15243	17649	22683
40°	13982	19126	26223
45°	12672	21711	28186
50°	11314	24026	26230
55°	10036	24019	20042
60°	8741	20344	12254
65°	7383	14067	7423
70°	5871	9112	5359
75°	4325	6548	4969
80°	2940	5777	5606
85°	1779	6401	8862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1191.6	3.0
10°-20°	3374.3	8.6
20°-30°	4937.7	12.6
30°-40°	6412.6	16.3
40°-50°	7830.6	19.9
50°-60°	6896.1	17.6
60°-70°	3593.6	9.1
70°-80°	1541.1	3.9
80°-90°	745.1	1.9
90°-100°	535.1	1.4
100°-110°	866.7	2.2
110°-120°	685.9	1.7
120°-130°	337.2	0.9
130°-140°	168.8	0.4
140°-150°	94.4	0.2
150°-160°	51.1	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	9503.6	24.2
0°-40°	15916.2	40.5
0°-60°	30642.9	78.0
0°-90°	36522.6	93.0
90°-120°	2087.8	5.3
90°-150°	2688.2	6.8
90°-180°	2770.0	7.0
0°-180°	39292.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12470	12470	12470	12470	12470	
5°	12354	12448	12515	12626	12612	###
15°	11689	12018	12133	12042	11945	3291
25°	10358	10912	10726	10524	10535	4753
35°	8407	9295	9760	11383	12112	5240
45°	6190	7788	10646	12889	13158	4773
55°	4122	6823	9914	8692	7726	3699
65°	2365	4727	4538	2524	2171	2340
75°	952	2211	1458	998	947	1039
85°	202	788	742	726	734	225
90°	7	313	528	610	629	17
95°	48	256	529	642	679	137
105°	822	896	935	790	756	781
115°	576	619	721	754	755	581
125°	292	315	385	411	411	272
135°	178	181	214	245	249	140
145°	139	137	142	159	165	87
155°	115	117	113	114	114	51
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12469.6	12469.6	12469.6	12469.6	12469.6
2.5°	12415.8	12469.6	12472.3	12547.6	12539.5
5°	12353.9	12448.1	12515.3	12625.6	12612.2
7.5°	12251.7	12399.6	12518.0	12639.1	12628.3
10°	12106.4	12308.2	12464.2	12563.8	12531.4
12.5°	11918.1	12184.4	12337.8	12359.3	12297.4
15°	11689.4	12017.6	12133.3	12041.8	11945.0
17.5°	11431.1	11815.8	11856.1	11657.1	11536.0
20°	11108.3	11546.8	11506.5	11232.0	11097.5
22.5°	10750.5	11250.9	11121.7	10833.8	10704.8
25°	10357.7	10911.9	10726.3	10524.5	10535.3
27.5°	9897.6	10527.2	10346.9	10438.4	10610.6
30°	9429.5	10123.6	10013.3	10546.0	10885.0
32.5°	8915.7	9709.3	9808.9	10860.8	11415.0
35°	8407.2	9295.0	9760.5	11382.7	12111.7
37.5°	7845.0	8875.3	9838.5	11985.3	12749.4
40°	7298.8	8466.4	10016.0	12526.1	13171.7
42.5°	6741.9	8100.6	10314.7	12846.2	13349.3
45°	6190.4	7788.5	10645.6	12889.3	13158.3
47.5°	5638.9	7524.8	10874.3	12547.6	12423.8
50°	5106.2	7290.8	10890.4	11727.1	11221.3
52.5°	4608.5	7075.5	10594.4	10419.6	9634.0
55°	4121.5	6822.7	9913.8	8692.4	7726.5
57.5°	3677.7	6472.9	8864.6	6836.1	5781.4
60°	3206.8	5999.4	7508.7	5001.3	4169.9
62.5°	2773.7	5410.2	5988.6	3481.2	2997.0
65°	2364.8	4726.9	4538.5	2523.5	2171.1
67.5°	1931.7	4019.4	3349.4	1840.2	1614.2
70°	1592.7	3362.9	2494.0	1431.2	1299.4
72.5°	1245.6	2738.7	1864.4	1162.2	1089.6
75°	952.4	2211.4	1458.2	998.1	947.0
77.5°	702.2	1748.7	1173.0	882.5	834.0
80°	492.4	1377.4	982.0	788.3	769.5
82.5°	330.9	1065.4	836.7	750.6	753.3
85°	201.8	788.3	742.5	726.4	734.5
87.5°	96.8	559.6	637.6	661.8	669.9
90°	6.7	312.7	527.6	609.7	628.8
92.5°	13.7	254.3	488.6	582.8	606.8
95°	48.3	256.5	529.1	641.7	679.3
97.5°	222.9	372.4	602.8	726.0	760.8
100°	454.3	592.0	694.4	783.5	798.9
102.5°	697.6	790.4	779.3	786.8	785.7
105°	821.5	896.0	935.2	789.8	755.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	669.3	727.4	827.5	846.6	826.0
115°	575.5	618.9	721.0	754.4	755.0
117.5°	497.4	527.8	619.7	651.3	654.8
120°	414.9	445.3	530.6	558.9	556.7
122.5°	351.1	374.2	451.7	479.7	477.5
125°	292.1	314.7	384.9	411.0	411.3
127.5°	247.4	260.5	327.8	355.5	357.4
130°	217.4	223.9	280.4	308.1	314.3
132.5°	194.8	200.5	243.8	273.9	278.5
135°	177.8	181.1	213.6	244.8	249.1
137.5°	164.1	166.5	190.2	219.5	224.9
140°	152.0	155.2	170.0	198.5	202.0
142.5°	144.1	144.7	156.0	179.1	181.8
145°	138.7	136.6	141.7	158.7	164.8
147.5°	131.4	132.0	133.6	146.0	148.7
150°	125.8	127.4	124.5	130.6	136.9
152.5°	120.1	121.7	118.8	119.6	125.0
155°	115.3	116.9	113.2	114.0	114.0
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°	827.4	900.6	980.2	861.0	767.8
110°	764.4	830.9	920.9	901.7	827.9



(END OF REPORT)