

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: P827814

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827814  
REPORT IS A COMBINATION OF REPORTS P826254 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-N-UNV-L930-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

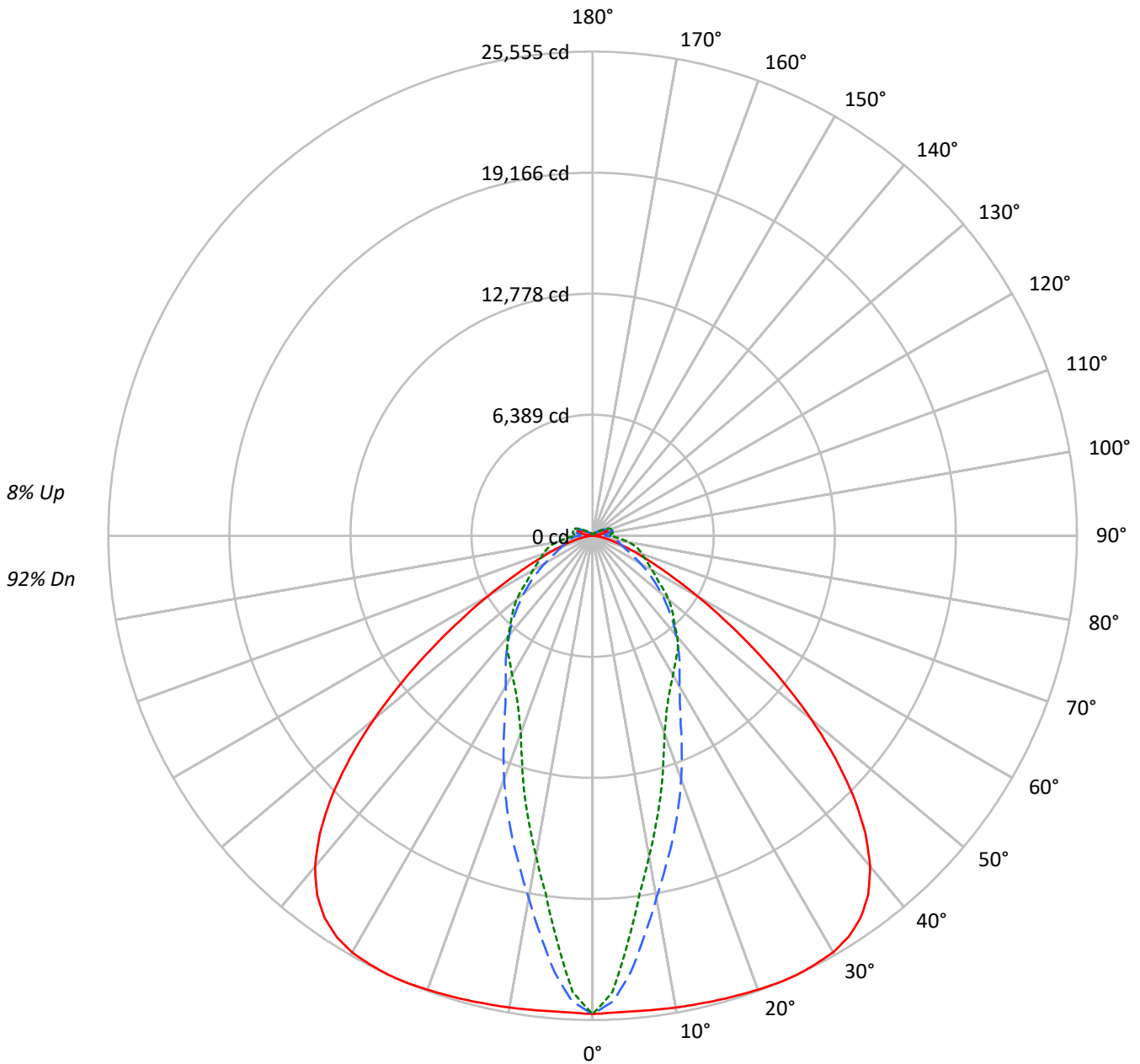
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39214.9 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 283.4  
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	76	70	65	72	67	63	68	64	61	59																			
4	84	74	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	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°	39924	39924	39924
5°	39675	36374	33968
10°	39953	30653	27370
15°	40558	26228	22577
20°	41511	22187	18354
25°	42746	18374	16170
30°	44002	15837	15108
35°	44672	14441	14485
40°	43641	13053	13838
45°	39871	11804	12913
50°	33369	10437	12232
55°	25112	9151	11006
60°	17387	7857	10682
65°	11514	6777	10646
70°	7696	6373	11446
75°	5172	6592	12683
80°	3371	7335	13882
85°	1758	9259	16553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2125.1	5.4
10°-20°	4999.1	12.7
20°-30°	6266.3	16.0
30°-40°	6649.3	17.0
40°-50°	6012.0	15.3
50°-60°	4359.1	11.1
60°-70°	2735.5	7.0
70°-80°	1810.3	4.6
80°-90°	1047.9	2.7
90°-100°	692.7	1.8
100°-110°	999.4	2.5
110°-120°	773.3	2.0
120°-130°	372.0	0.9
130°-140°	181.9	0.5
140°-150°	103.8	0.3
150°-160°	56.6	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	13390.5	34.1
0°-40°	20039.8	51.1
0°-60°	30410.8	77.5
0°-90°	36004.6	91.8
90°-120°	2465.4	6.3
90°-150°	3123.1	8.0
90°-180°	3210.0	8.2
0°-180°	39214.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	25245	25245	25245	25245	25245	
5°	25194	24548	23106	22035	21480	###
15°	25386	20692	16434	14615	13952	7199
25°	25555	15999	11004	9767	9457	11806
35°	24639	10636	7986	7737	7734	15317
45°	19478	6737	5788	5927	6028	14838
55°	10312	4176	3777	4097	4243	9317
65°	3688	2422	2186	2802	3114	3838
75°	1139	1305	1468	2280	2417	1270
85°	199	541	1074	1494	1372	239
90°	4	253	660	927	940	16
95°	52	248	687	929	987	142
105°	830	908	1081	1014	989	789
115°	586	640	834	900	902	590
125°	302	326	430	466	461	281
135°	186	194	231	266	268	147
145°	146	152	159	179	177	92
155°	123	131	136	139	134	53
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°	25244.7	25244.7	25244.7	25244.7	25244.7
2.5°	25191.8	25047.6	24598.3	24324.4	24093.7
5°	25194.1	24547.9	23106.3	22034.7	21479.7
7.5°	25230.2	23793.5	21196.2	19632.1	19021.8
10°	25285.5	22858.8	19413.4	17746.0	17176.5
12.5°	25326.3	21806.4	17844.4	16131.3	15506.7
15°	25386.4	20691.6	16434.1	14615.3	13952.2
17.5°	25441.6	19641.6	15040.6	13140.1	12402.5
20°	25496.9	18510.0	13647.0	11688.9	11081.0
22.5°	25549.8	17315.9	12287.2	10562.0	10146.4
25°	25554.6	15999.3	11004.2	9766.8	9456.9
27.5°	25492.1	14634.6	9963.8	9101.3	8909.0
30°	25384.0	13310.7	9156.5	8620.7	8483.8
32.5°	25114.9	11960.4	8531.8	8157.0	8077.7
35°	24639.1	10636.5	7986.4	7736.6	7734.1
37.5°	23889.6	9461.6	7395.4	7352.1	7405.0
40°	22781.9	8433.3	6835.5	6950.9	6950.9
42.5°	21304.3	7539.5	6328.6	6446.3	6415.1
45°	19478.2	6737.1	5788.0	5927.3	6028.2
47.5°	17361.5	6030.7	5235.3	5504.5	5643.8
50°	15059.8	5357.9	4730.9	5074.4	5233.0
52.5°	12647.5	4735.6	4238.3	4632.3	4759.6
55°	10312.2	4175.8	3776.9	4096.6	4243.1
57.5°	8197.9	3642.4	3325.2	3628.0	3930.8
60°	6379.0	3183.5	2900.0	3332.4	3635.2
62.5°	4872.6	2775.1	2501.1	3056.1	3358.9
65°	3688.1	2421.8	2186.4	2801.5	3113.9
67.5°	2779.9	2116.7	1941.4	2616.5	2921.6
70°	2087.9	1821.2	1744.3	2501.1	2775.1
72.5°	1542.5	1549.7	1588.1	2400.3	2609.3
75°	1138.9	1304.6	1468.0	2280.1	2417.1
77.5°	814.5	1081.2	1359.9	2135.9	2184.0
80°	564.6	881.8	1246.9	1946.1	1905.3
82.5°	353.2	706.4	1146.1	1737.1	1624.2
85°	199.4	540.6	1074.0	1494.4	1371.9
87.5°	88.9	403.7	939.4	1165.3	1088.4
90°	4.0	253.3	660.2	927.1	939.9
92.5°	18.5	223.7	632.4	885.0	919.5
95°	52.5	248.3	686.8	929.1	987.0
97.5°	229.5	374.6	767.2	998.3	1053.8
100°	460.6	598.7	855.7	1040.9	1072.2
102.5°	706.3	800.8	934.4	1026.8	1039.6
105°	830.0	907.6	1081.1	1014.4	989.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	677.1	744.6	950.2	1010.9	997.1
115°	585.8	639.5	834.1	899.8	902.1
117.5°	507.4	544.3	718.0	777.3	780.5
120°	424.9	462.6	614.1	660.5	655.6
122.5°	361.1	389.9	515.0	554.2	546.9
125°	302.1	326.2	430.4	465.6	460.8
127.5°	257.6	272.9	360.3	394.7	391.6
130°	227.7	238.9	304.7	339.2	340.0
132.5°	202.6	213.2	262.1	298.9	298.1
135°	185.7	193.8	230.6	265.9	267.5
137.5°	171.9	181.6	205.6	239.3	239.3
140°	159.8	167.9	186.3	216.8	217.6
142.5°	151.7	157.4	170.2	195.9	195.9
145°	146.1	151.6	158.9	179.0	177.3
147.5°	138.8	146.8	150.8	164.4	162.1
150°	133.1	141.9	144.4	152.4	150.8
152.5°	127.5	136.3	138.7	144.3	141.9
155°	122.6	131.4	135.5	138.6	133.9
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°	833.2	915.8	1119.4	1062.6	980.8
110°	772.6	847.1	1055.8	1082.4	1020.0



(END OF REPORT)