

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: P828414

Luminaire Tested: **OHBL-48HE-N-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828414  
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-L940-CD-UPL24  
Description:  
Light Source: -  
Ballast/Driver: -

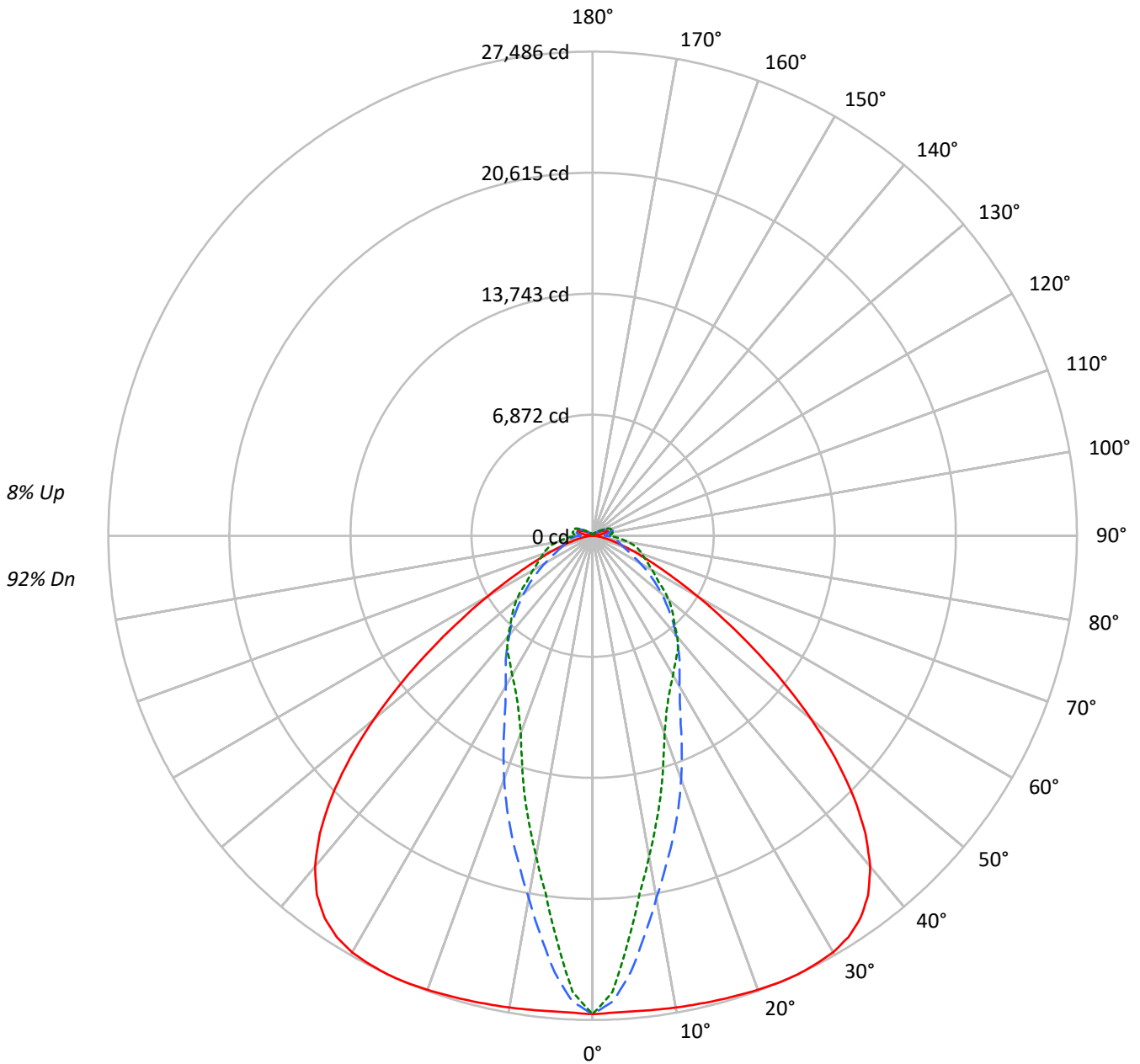
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42179.7 lumens  
Efficiency: N/A  
Efficacy: 148.8 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°	42942	42942	42942
5°	42674	39124	36536
10°	42973	32970	29440
15°	43624	28211	24284
20°	44650	23864	19742
25°	45977	19763	17392
30°	47328	17034	16250
35°	48049	15533	15580
40°	46940	14040	14884
45°	42886	12697	13889
50°	35892	11226	13157
55°	27010	9842	11838
60°	18702	8451	11490
65°	12385	7289	11451
70°	8278	6855	12311
75°	5563	7090	13641
80°	3626	7890	14931
85°	1891	9958	17804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2285.7	5.4
10°-20°	5377.0	12.7
20°-30°	6740.1	16.0
30°-40°	7152.0	17.0
40°-50°	6466.5	15.3
50°-60°	4688.6	11.1
60°-70°	2942.3	7.0
70°-80°	1947.2	4.6
80°-90°	1127.1	2.7
90°-100°	745.0	1.8
100°-110°	1074.9	2.5
110°-120°	831.8	2.0
120°-130°	400.1	0.9
130°-140°	195.7	0.5
140°-150°	111.7	0.3
150°-160°	60.9	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	14402.8	34.1
0°-40°	21554.8	51.1
0°-60°	32709.9	77.5
0°-90°	38726.6	91.8
90°-120°	2651.8	6.3
90°-150°	3359.2	8.0
90°-180°	3453.0	8.2
0°-180°	42179.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27153	27153	27153	27153	27153	
5°	27099	26404	24853	23700	23104	###
15°	27306	22256	17677	15720	15007	7744
25°	27486	17209	11836	10505	10172	12698
35°	26502	11441	8590	8322	8319	16475
45°	20951	7246	6226	6376	6484	15960
55°	11092	4492	4062	4406	4564	10022
65°	3967	2605	2352	3013	3349	4128
75°	1225	1403	1579	2452	2600	1366
85°	214	582	1155	1607	1476	257
90°	4	272	710	997	1011	17
95°	56	267	739	999	1062	152
105°	893	976	1163	1091	1064	848
115°	630	688	897	968	970	635
125°	325	351	463	501	496	303
135°	200	208	248	286	288	158
145°	157	163	171	192	191	99
155°	132	141	146	149	144	57
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	27153.2	27153.2	27153.2	27153.2	27153.2
2.5°	27096.3	26941.2	26458.0	26163.4	25915.3
5°	27098.8	26403.7	24853.2	23700.5	23103.6
7.5°	27137.6	25592.3	22798.7	21116.3	20459.9
10°	27197.1	24586.9	20881.1	19087.6	18475.1
12.5°	27241.0	23455.0	19193.5	17350.9	16679.0
15°	27305.6	22256.0	17676.6	15720.3	15007.0
17.5°	27365.1	21126.5	16177.7	14133.5	13340.1
20°	27424.5	19909.4	14678.7	12572.6	11918.8
22.5°	27481.4	18625.0	13216.1	11360.5	10913.4
25°	27486.5	17208.8	11836.1	10505.1	10171.8
27.5°	27419.3	15740.9	10717.0	9789.3	9582.6
30°	27303.1	14317.0	9848.7	9272.5	9125.2
32.5°	27013.6	12864.6	9176.8	8773.7	8688.4
35°	26501.9	11440.7	8590.2	8321.5	8318.8
37.5°	25695.6	10176.9	7954.5	7907.9	7964.8
40°	24504.2	9070.8	7352.3	7476.4	7476.4
42.5°	22914.9	8109.5	6807.1	6933.6	6900.1
45°	20950.8	7246.4	6225.6	6375.5	6484.0
47.5°	18674.1	6486.6	5631.1	5920.7	6070.5
50°	16198.4	5762.9	5088.5	5458.0	5628.6
52.5°	13603.7	5093.6	4558.7	4982.5	5119.5
55°	11091.8	4491.5	4062.5	4406.3	4563.9
57.5°	8817.6	3917.8	3576.6	3902.2	4227.9
60°	6861.3	3424.2	3119.2	3584.4	3910.1
62.5°	5240.9	2984.9	2690.2	3287.2	3612.8
65°	3966.9	2604.9	2351.7	3013.3	3349.3
67.5°	2990.0	2276.7	2088.1	2814.3	3142.5
70°	2245.8	1958.9	1876.2	2690.2	2984.9
72.5°	1659.1	1666.9	1708.2	2581.7	2806.6
75°	1225.0	1403.3	1579.0	2452.5	2599.8
77.5°	876.1	1163.0	1462.7	2297.4	2349.2
80°	607.3	948.5	1341.2	2093.3	2049.4
82.5°	379.9	759.8	1232.7	1868.4	1747.0
85°	214.5	581.5	1155.1	1607.4	1475.6
87.5°	95.6	434.2	1010.5	1253.4	1170.7
90°	4.3	272.5	710.2	997.2	1011.0
92.5°	19.9	240.7	680.3	951.9	989.0
95°	56.4	267.1	738.8	999.3	1061.6
97.5°	246.8	402.9	825.2	1073.8	1133.5
100°	495.4	643.9	920.4	1119.6	1153.2
102.5°	759.7	861.4	1005.1	1104.5	1118.2
105°	892.7	976.2	1162.8	1091.1	1064.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	728.3	800.8	1022.0	1087.3	1072.5
115°	630.1	687.8	897.2	967.8	970.3
117.5°	545.8	585.4	772.3	836.1	839.5
120°	457.1	497.6	660.5	710.4	705.2
122.5°	388.4	419.4	553.9	596.1	588.3
125°	324.9	350.9	462.9	500.8	495.6
127.5°	277.1	293.5	387.5	424.5	421.2
130°	244.9	257.0	327.8	364.8	365.7
132.5°	218.0	229.3	281.9	321.5	320.7
135°	199.7	208.4	248.1	286.0	287.7
137.5°	184.9	195.3	221.2	257.4	257.4
140°	171.9	180.6	200.4	233.2	234.1
142.5°	163.2	169.3	183.1	210.7	210.7
145°	157.1	163.1	170.9	192.5	190.8
147.5°	149.3	157.9	162.2	176.8	174.3
150°	143.2	152.7	155.3	163.9	162.2
152.5°	137.1	146.6	149.2	155.2	152.7
155°	131.9	141.4	145.7	149.1	144.0
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	896.2	985.0	1204.0	1143.0	1055.0
110°	831.0	911.2	1135.7	1164.3	1097.2



(END OF REPORT)