

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: P829192

Luminaire Tested: **OHB-24HE-N-UNV-L735-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-24HE-N-UNV-L735-CD  
Description: 24000 LUMEN OHB HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

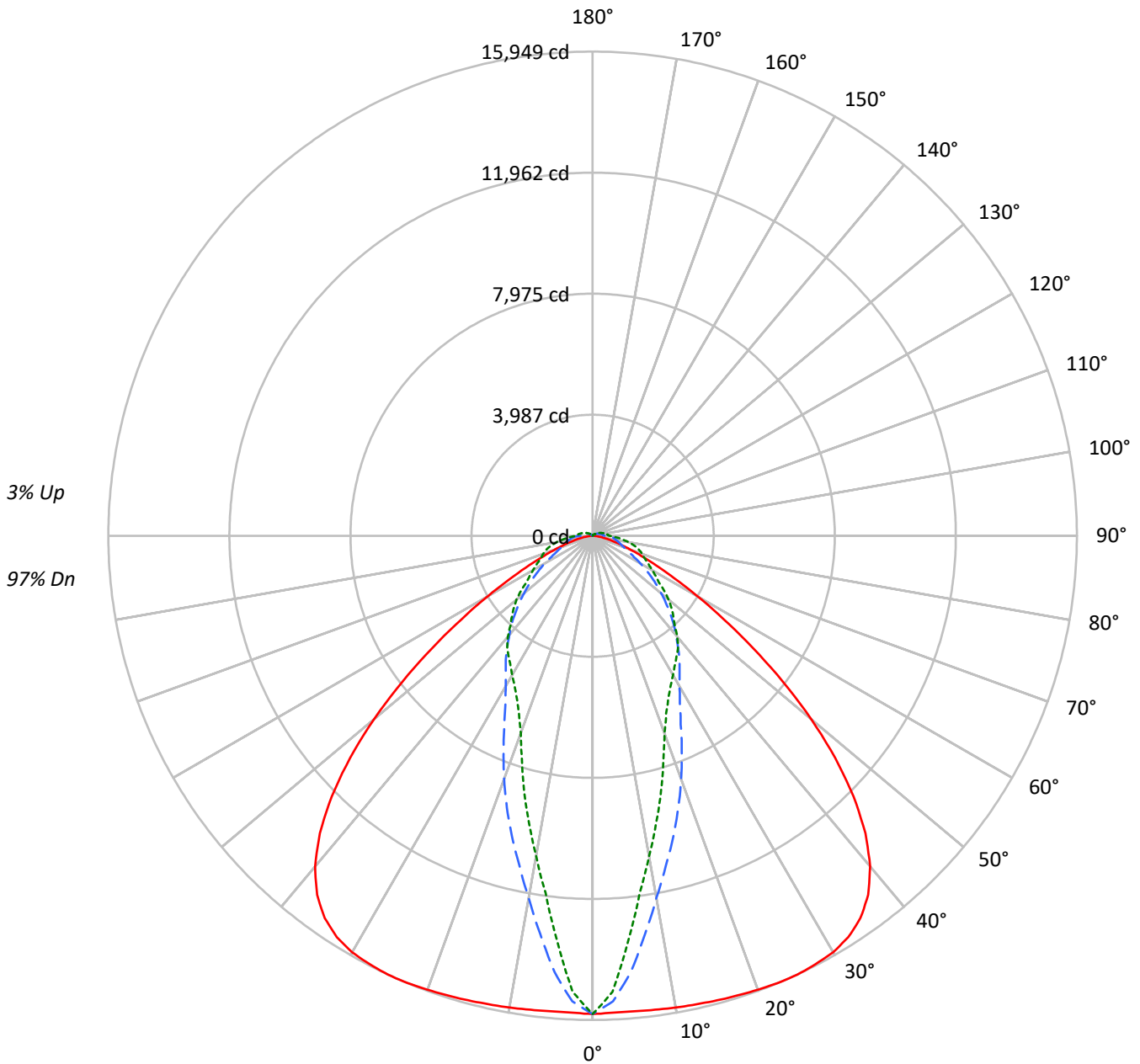
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23253.1 lumens  
Efficiency: N/A  
Efficacy: 178.9 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 1.93' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 130  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	48732	48732	48732
5°	48455	44284	41288
10°	48821	37224	33128
15°	49589	31767	27208
20°	50784	26801	22021
25°	52326	22133	19309
30°	53898	19021	17951
35°	54758	17290	17116
40°	53536	15573	16253
45°	48954	14027	15062
50°	41012	12347	14153
55°	30901	10767	12612
60°	21428	9185	12094
65°	14217	7856	11866
70°	9528	7306	12486
75°	6427	7439	13397
80°	4216	8072	13887
85°	2225	9728	14761



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1326.3	5.7
10°-20°	3119.9	13.4
20°-30°	3910.8	16.8
30°-40°	4149.8	17.8
40°-50°	3752.1	16.1
50°-60°	2720.5	11.7
60°-70°	1707.2	7.3
70°-80°	1129.8	4.9
80°-90°	650.9	2.8
90°-100°	315.3	1.4
100°-110°	217.7	0.9
110°-120°	134.3	0.6
120°-130°	65.1	0.3
130°-140°	29.9	0.1
140°-150°	16.3	0.1
150°-160°	7.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	8357.0	35.9
0°-40°	12506.8	53.8
0°-60°	18979.4	81.6
0°-90°	22467.3	96.6
90°-120°	667.3	2.9
90°-150°	778.6	3.3
90°-180°	786.0	3.4
0°-180°	23253.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15755	15755	15755	15755	15755	
5°	15724	15320	14421	13752	13405	###
15°	15844	12914	10256	9121	8708	4493
25°	15949	9985	6868	6095	5902	7368
35°	15377	6638	4984	4828	4827	9559
45°	12156	4205	3612	3699	3762	9261
55°	6436	2606	2357	2557	2648	5815
65°	2302	1512	1364	1748	1943	2395
75°	711	814	916	1423	1508	792
85°	124	337	670	933	856	149
90°	0	141	388	547	552	8
95°	6	99	342	465	486	5
105°	12	66	249	330	339	12
115°	16	46	168	210	214	16
125°	18	24	86	108	106	16
135°	15	18	38	58	58	12
145°	18	20	22	34	33	11
155°	18	22	24	26	22	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHB-24HE-N-UNV-L735-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15755.1	15755.1	15755.1	15755.1	15755.1
2.5°	15722.2	15632.2	15351.8	15180.8	15036.9
5°	15723.7	15320.3	14420.6	13751.8	13405.4
7.5°	15746.2	14849.5	13228.5	12252.3	11871.5
10°	15780.6	14266.2	12115.9	11075.2	10719.9
12.5°	15806.1	13609.4	11136.7	10067.6	9677.7
15°	15843.6	12913.6	10256.5	9121.4	8707.5
17.5°	15878.1	12258.3	9386.8	8200.7	7740.4
20°	15912.6	11552.1	8517.1	7295.0	6915.7
22.5°	15945.6	10806.8	7668.4	6591.8	6332.3
25°	15948.6	9985.1	6867.7	6095.4	5902.0
27.5°	15909.6	9133.4	6218.4	5680.1	5560.1
30°	15842.1	8307.2	5714.6	5380.2	5294.7
32.5°	15674.2	7464.5	5324.7	5090.8	5041.3
35°	15377.3	6638.2	4984.3	4828.4	4826.9
37.5°	14909.4	5905.0	4615.4	4588.4	4621.4
40°	14218.2	5263.2	4266.1	4338.0	4338.0
42.5°	13296.0	4705.4	3949.7	4023.1	4003.6
45°	12156.4	4204.6	3612.3	3699.2	3762.2
47.5°	10835.3	3763.7	3267.4	3435.3	3522.3
50°	9398.8	3343.9	2952.5	3166.9	3265.9
52.5°	7893.3	2955.5	2645.1	2891.0	2970.5
55°	6435.8	2606.1	2357.2	2556.6	2648.1
57.5°	5116.3	2273.2	2075.3	2264.2	2453.2
60°	3981.1	1986.8	1809.9	2079.8	2268.7
62.5°	3041.0	1731.9	1561.0	1907.4	2096.3
65°	2301.7	1511.5	1364.5	1748.4	1943.3
67.5°	1734.9	1321.1	1211.6	1632.9	1823.4
70°	1303.1	1136.6	1088.6	1561.0	1731.9
72.5°	962.7	967.2	991.2	1498.0	1628.4
75°	710.8	814.2	916.2	1423.0	1508.5
77.5°	508.3	674.8	848.7	1333.0	1363.0
80°	352.4	550.3	778.2	1214.6	1189.1
82.5°	220.4	440.9	715.3	1084.1	1013.7
85°	124.5	337.4	670.3	932.7	856.2
87.5°	55.5	251.9	586.3	727.3	679.3
90°	0.0	141.0	388.4	547.3	551.8
92.5°	3.0	117.0	358.4	500.8	515.8
95°	6.0	99.0	341.9	464.8	485.8
97.5°	7.5	87.0	320.9	431.9	449.8
100°	9.0	78.0	295.4	397.4	412.4
102.5°	10.5	72.0	271.4	361.4	373.4
105°	12.0	66.0	248.9	329.9	338.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	15.0	51.0	187.4	236.9	244.4
115°	16.5	46.5	167.9	209.9	214.4
117.5°	18.0	40.5	147.0	184.4	185.9
120°	18.0	36.0	126.0	157.4	157.4
122.5°	18.0	30.0	105.0	130.5	129.0
125°	18.0	24.0	85.5	108.0	106.5
127.5°	16.5	19.5	69.0	90.0	88.5
130°	16.5	19.5	55.5	76.5	76.5
132.5°	15.0	18.0	45.0	66.0	66.0
135°	15.0	18.0	37.5	58.5	58.5
137.5°	15.0	19.5	31.5	51.0	51.0
140°	15.0	18.0	27.0	45.0	45.0
142.5°	16.5	18.0	24.0	39.0	39.0
145°	18.0	19.5	22.5	34.5	33.0
147.5°	18.0	21.0	22.5	30.0	28.5
150°	18.0	22.5	22.5	27.0	25.5
152.5°	18.0	22.5	22.5	25.5	24.0
155°	18.0	22.5	24.0	25.5	22.5
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.0	61.5	227.9	295.4	305.9
110°	13.5	55.5	208.4	263.9	274.4



(END OF REPORT)