

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: P827883

Luminaire Tested: **OHB-24HE-A-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827883  
REPORT IS A COMBINATION OF REPORTS P826035 AND G3-2310-221-12  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHB-24HE-A-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

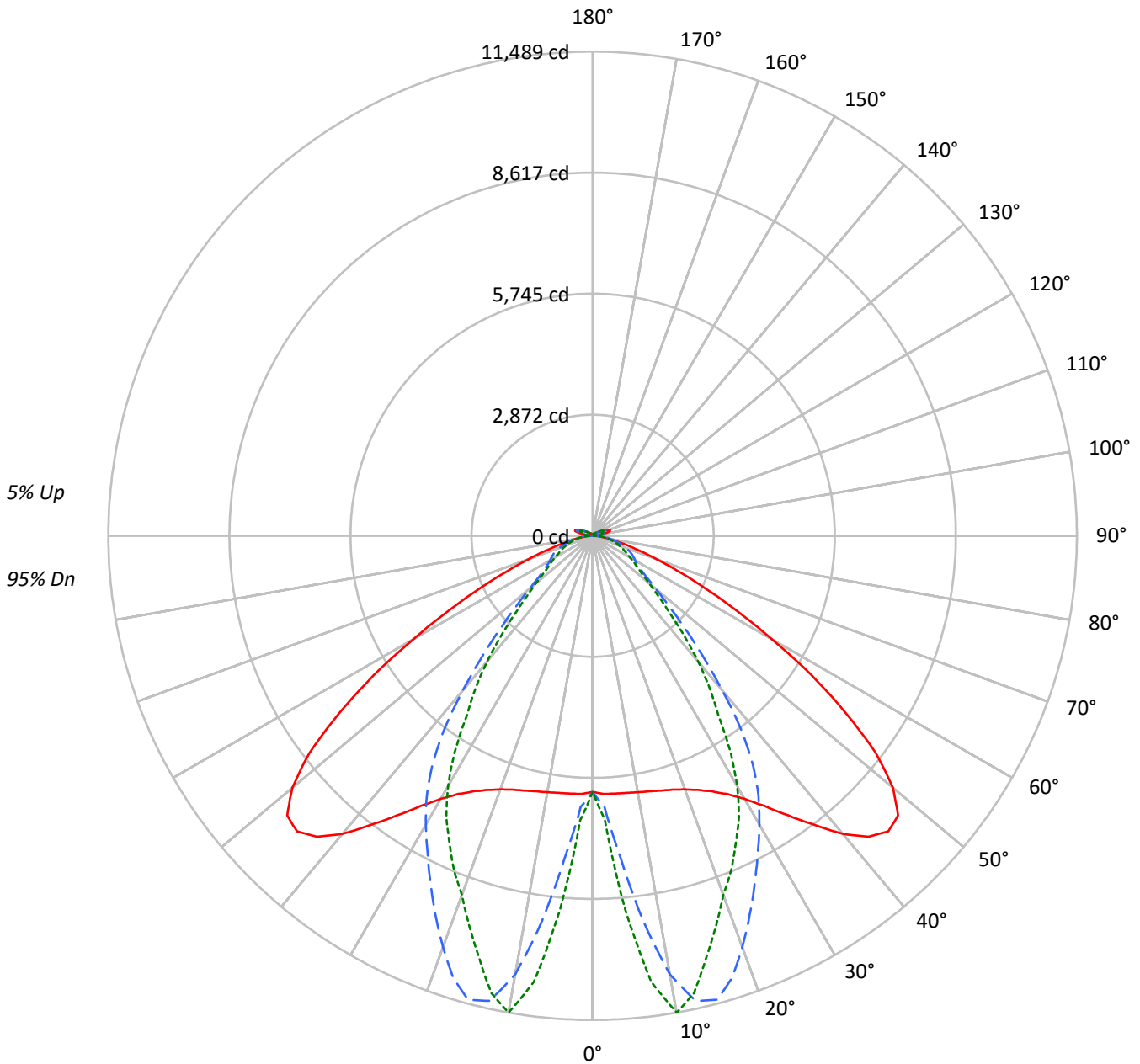
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20547.7 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 138.4  
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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CATALOG NUMBER: OHB-24HE-A-UNV-L935-CD-UPL12

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					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	108	108	108	103	103	103	97	97	97	95								
1	109	105	102	99	106	103	99	97	98	95	93	93	91	89	89	87	85	83								
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	72								
3	94	85	78	72	91	83	76	71	79	74	69	76	71	67	73	69	66	64								
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56								
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50								
6	75	63	55	49	73	62	54	49	60	53	48	58	52	47	56	51	47	45								
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40								
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37								
9	61	49	42	36	60	48	41	36	47	40	36	45	40	35	44	39	35	33								
10	58	45	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31								

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

	0°	45°	90°
0°	18805	18805	18805
5°	18913	23602	27466
10°	19094	32470	35545
15°	19562	35297	32501
20°	20384	32678	28934
25°	21886	29322	26358
30°	24423	26338	23335
35°	28735	22992	18507
40°	34582	17459	14650
45°	39708	11856	10365
50°	40303	8103	7612
55°	34934	6348	6166
60°	26139	5908	5489
65°	17956	5887	5129
70°	11515	5627	4875
75°	6953	5141	4532
80°	4120	4427	4457
85°	2008	3662	3728



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.7	3.9
10°-20°	2801.4	13.6
20°-30°	4128.1	20.1
30°-40°	4338.0	21.1
40°-50°	3319.4	16.2
50°-60°	2004.4	9.8
60°-70°	1223.1	6.0
70°-80°	667.6	3.2
80°-90°	237.0	1.2
90°-100°	99.1	0.5
100°-110°	344.9	1.7
110°-120°	296.3	1.4
120°-130°	142.0	0.7
130°-140°	71.0	0.3
140°-150°	41.3	0.2
150°-160°	24.1	0.1
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	7723.3	37.6
0°-40°	12061.3	58.7
0°-60°	17385.0	84.6
0°-90°	19512.6	95.0
90°-120°	740.3	3.6
90°-150°	994.7	4.8
90°-180°	1035.0	5.0
0°-180°	20547.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6080	6080	6080	6080	6080	
5°	6141	6588	7686	8582	8913	587
15°	6260	9751	11396	10634	10384	1780
25°	6690	11317	9098	8237	8034	3127
35°	8104	9063	6628	5520	5197	5141
45°	9918	5171	3053	2687	2574	7494
55°	7335	1754	1390	1288	1284	6482
65°	2941	1110	1022	875	830	3013
75°	783	690	633	522	501	901
85°	116	214	252	230	209	144
90°	2	15	20	26	29	8
95°	21	48	72	97	112	68
105°	431	426	363	258	237	408
115°	300	300	301	298	293	300
125°	147	152	156	154	155	137
135°	85	88	91	92	92	68
145°	62	64	65	66	67	40
155°	50	51	52	52	52	23
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



TEST NUMBER: P827883

CATALOG NUMBER: OHB-24HE-A-UNV-L935-CD-UPL12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6079.8	6079.8	6079.8	6079.8	6079.8
2.5°	6129.7	6192.2	6438.8	6694.8	6757.2
5°	6140.8	6588.2	7685.6	8581.7	8912.8
7.5°	6153.9	7229.8	9230.3	10327.4	10678.6
10°	6178.7	8041.2	10568.8	11356.4	11489.2
12.5°	6209.4	8900.8	11305.3	11276.7	11109.2
15°	6260.5	9750.9	11396.1	10634.2	10384.2
17.5°	6314.3	10470.2	11000.3	9935.0	9717.3
20°	6401.6	11004.2	10384.8	9313.5	9066.1
22.5°	6527.5	11297.8	9739.2	8751.4	8590.0
25°	6689.9	11316.8	9098.2	8237.0	8033.7
27.5°	6907.6	11054.2	8483.7	7733.0	7518.2
30°	7203.8	10551.6	7912.7	7125.3	6858.8
32.5°	7606.1	9828.2	7324.0	6391.7	6092.9
35°	8103.5	9062.7	6628.2	5519.8	5197.1
37.5°	8646.3	8212.8	5783.7	4747.8	4559.9
40°	9230.3	7337.0	4782.8	4025.4	3890.9
42.5°	9686.0	6384.9	3853.1	3345.3	3202.1
45°	9918.3	5171.2	3053.2	2686.7	2573.8
47.5°	9827.8	4014.3	2420.5	2134.8	2100.8
50°	9299.9	2964.1	1937.7	1758.5	1744.4
52.5°	8474.5	2209.2	1600.5	1489.8	1465.5
55°	7334.9	1753.6	1389.8	1288.2	1284.2
57.5°	6158.3	1489.8	1261.6	1182.8	1155.5
60°	4903.2	1328.3	1164.3	1075.4	1019.9
62.5°	3843.4	1215.4	1092.9	972.2	920.3
65°	2940.6	1110.1	1022.5	874.9	830.3
67.5°	2192.1	1009.8	936.5	772.8	746.7
70°	1597.2	906.8	838.4	687.3	666.7
72.5°	1138.3	804.0	740.4	606.9	584.2
75°	782.9	690.3	633.2	522.5	501.3
77.5°	528.2	574.3	527.7	446.1	437.3
80°	352.8	455.5	426.8	378.0	372.6
82.5°	214.1	330.6	336.8	307.4	292.5
85°	116.5	214.1	252.3	229.9	208.6
87.5°	45.6	118.6	173.9	156.2	147.1
90°	2.5	15.0	20.0	25.8	29.2
92.5°	7.5	19.2	31.7	45.0	49.2
95°	20.8	48.3	71.7	96.7	111.7
97.5°	112.5	122.5	138.3	163.3	171.7
100°	230.0	247.5	205.8	215.0	219.2
102.5°	365.8	360.8	263.3	238.3	234.2
105°	430.8	425.8	363.3	257.5	236.7



TEST NUMBER: P827883

CATALOG NUMBER: OHB-24HE-A-UNV-L935-CD-UPL12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	348.3	350.8	348.3	335.0	320.8
115°	300.0	300.0	300.8	298.3	293.3
117.5°	251.7	255.0	257.5	255.0	253.3
120°	210.8	215.8	217.5	214.2	214.2
122.5°	177.5	181.7	184.2	181.7	182.5
125°	146.7	152.5	155.8	154.2	155.0
127.5°	122.5	127.5	133.3	132.5	132.5
130°	106.7	110.0	114.2	115.0	115.0
132.5°	95.0	97.5	100.8	101.7	102.5
135°	85.0	87.5	90.8	91.7	91.7
137.5°	78.3	80.0	82.5	83.3	84.2
140°	71.7	74.2	75.8	76.7	76.7
142.5°	66.7	68.3	70.0	70.8	71.7
145°	62.5	64.2	65.0	65.8	66.7
147.5°	58.3	60.0	61.7	61.7	62.5
150°	55.8	56.7	57.5	58.3	58.3
152.5°	52.5	53.3	54.2	55.0	55.0
155°	50.0	50.8	51.7	52.5	52.5
157.5°	47.5	49.2	49.2	50.0	50.0
160°	45.8	46.7	47.5	47.5	47.5
162.5°	44.2	45.0	45.0	45.8	45.8
165°	43.3	43.3	44.2	44.2	44.2
167.5°	41.7	41.7	42.5	42.5	42.5
170°	40.8	40.8	40.8	41.7	41.7
172.5°	40.0	40.0	40.0	40.0	40.0
175°	39.2	39.2	39.2	39.2	39.2
177.5°	38.3	39.2	39.2	39.2	39.2
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	433.3	435.0	400.8	310.8	257.5
110°	396.7	402.5	384.2	350.0	307.5



(END OF REPORT)