

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: P828087

Luminaire Tested: **OHBL-36HE-A-UNV-L935-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828087  
REPORT IS A COMBINATION OF REPORTS P826167 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36HE-A-UNV-L935-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

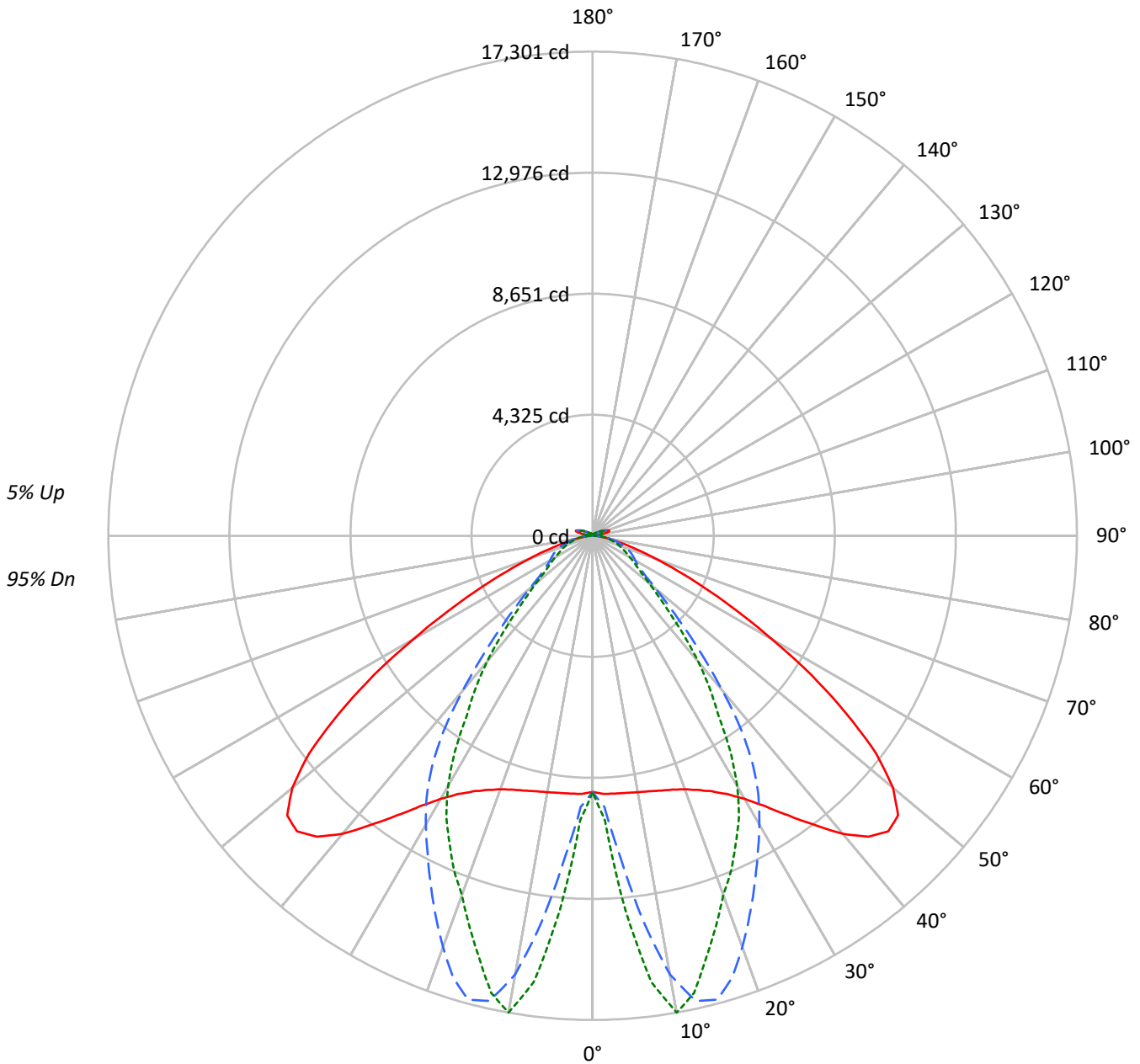
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30870.8 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 224.3  
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	108	108	108	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	81	69	61	56	78	68	61	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	48	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	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

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

	0°	45°	90°
0°	14479	14479	14479
5°	14562	18219	21225
10°	14701	25129	27569
15°	15061	27387	25303
20°	15694	25424	22613
25°	16851	22876	20684
30°	18804	20609	18393
35°	22124	18048	14657
40°	26626	13753	11664
45°	30573	9377	8302
50°	31030	6437	6140
55°	26897	5071	5016
60°	20126	4750	4513
65°	13825	4773	4275
70°	8865	4613	4140
75°	5354	4282	3962
80°	3172	3781	4087
85°	1547	3276	3790



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1195.2	3.9
10°-20°	4218.6	13.7
20°-30°	6216.3	20.1
30°-40°	6532.4	21.2
40°-50°	4998.5	16.2
50°-60°	3018.3	9.8
60°-70°	1841.8	6.0
70°-80°	1005.3	3.3
80°-90°	356.6	1.2
90°-100°	142.7	0.5
100°-110°	495.5	1.6
110°-120°	425.7	1.4
120°-130°	204.5	0.7
130°-140°	102.1	0.3
140°-150°	59.3	0.2
150°-160°	34.6	0.1
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	11630.1	37.7
0°-40°	18162.5	58.8
0°-60°	26179.2	84.8
0°-90°	29382.9	95.2
90°-120°	1063.9	3.4
90°-150°	1429.8	4.6
90°-180°	1488.0	4.8
0°-180°	30870.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9155	9155	9155	9155	9155	
5°	9247	9921	11573	12923	13421	884
15°	9427	14684	17161	16014	15637	2681
25°	10074	17041	13700	12404	12098	4708
35°	12203	13647	9981	8312	7826	7741
45°	14936	7787	4598	4046	3876	11285
55°	11045	2641	2093	1940	1934	9760
65°	4428	1672	1540	1318	1250	4537
75°	1179	1040	954	787	755	1357
85°	176	322	380	346	314	217
90°	3	21	28	38	42	12
95°	32	68	108	139	159	100
105°	618	612	522	368	339	586
115°	428	432	432	427	426	431
125°	208	218	224	223	222	196
135°	123	126	130	132	132	98
145°	90	92	94	95	95	57
155°	72	73	74	75	75	34
165°	62	62	62	63	63	18
175°	56	56	57	57	57	5
180°	56	56	56	56	56	



TEST NUMBER: P828087

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9155.3	9155.3	9155.3	9155.3	9155.3
2.5°	9230.3	9324.6	9695.9	10081.5	10175.3
5°	9247.3	9920.9	11573.3	12922.7	13421.3
7.5°	9266.8	10887.1	13899.5	15551.5	16080.3
10°	9304.2	12108.8	15915.1	17101.1	17300.9
12.5°	9350.5	13403.2	17024.2	16981.0	16728.9
15°	9427.4	14683.5	17160.8	16013.6	15637.1
17.5°	9508.2	15766.7	16564.8	14960.7	14632.8
20°	9639.8	16570.7	15637.9	14024.8	13652.2
22.5°	9829.4	17012.8	14665.8	13178.2	12935.2
25°	10074.0	17041.4	13700.4	12403.7	12097.5
27.5°	10401.8	16646.1	12775.1	11644.8	11321.3
30°	10847.8	15889.2	11915.3	10729.7	10328.4
32.5°	11453.6	14799.7	11028.8	9624.9	9175.0
35°	12202.7	13647.0	9981.0	8312.1	7826.0
37.5°	13020.1	12367.2	8709.3	7149.6	6866.5
40°	13899.5	11048.4	7202.2	6061.7	5859.1
42.5°	14585.8	9614.7	5802.2	5037.4	4821.8
45°	14935.6	7787.2	4597.7	4045.7	3875.8
47.5°	14799.3	6044.8	3644.8	3214.6	3163.5
50°	14004.3	4463.4	2917.8	2648.1	2626.8
52.5°	12761.3	3326.8	2410.2	2243.3	2206.8
55°	11045.3	2640.6	2092.9	1939.8	1933.9
57.5°	9273.5	2243.3	1899.8	1781.2	1740.0
60°	7383.6	2000.3	1753.3	1619.5	1535.8
62.5°	5787.7	1830.3	1645.8	1464.0	1385.8
65°	4428.1	1671.7	1539.8	1317.6	1250.4
67.5°	3300.9	1520.5	1410.2	1163.7	1124.4
70°	2405.1	1365.4	1262.6	1034.9	1003.8
72.5°	1714.1	1210.8	1115.0	914.0	879.8
75°	1179.0	1039.6	953.6	786.8	755.0
77.5°	795.4	864.9	794.6	671.8	658.4
80°	531.2	685.8	642.7	569.2	561.0
82.5°	322.3	497.8	507.3	462.8	440.5
85°	175.5	322.3	380.0	346.2	314.1
87.5°	68.7	178.7	261.8	235.2	221.4
90°	3.3	20.8	28.3	37.5	41.7
92.5°	10.8	27.5	45.8	63.3	70.0
95°	31.7	68.3	107.5	139.2	159.2
97.5°	162.5	177.5	198.3	235.0	248.3
100°	335.0	351.7	295.0	309.2	314.2
102.5°	524.2	523.3	378.3	341.7	336.7
105°	617.5	611.7	521.7	367.5	339.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	501.7	505.0	495.0	481.7	460.8
115°	427.5	432.5	431.7	426.7	425.8
117.5°	364.2	366.7	368.3	366.7	367.5
120°	304.2	310.0	313.3	310.8	309.2
122.5°	254.2	261.7	265.8	263.3	261.7
125°	208.3	218.3	224.2	223.3	221.7
127.5°	176.7	184.2	191.7	190.8	189.2
130°	153.3	159.2	164.2	165.0	165.8
132.5°	137.5	140.0	145.0	145.8	147.5
135°	123.3	125.8	130.0	131.7	132.5
137.5°	112.5	115.0	118.3	120.0	120.8
140°	103.3	105.8	108.3	110.0	110.8
142.5°	95.8	98.3	100.8	101.7	102.5
145°	90.0	91.7	94.2	95.0	95.0
147.5°	84.2	85.8	87.5	89.2	89.2
150°	79.2	80.8	82.5	83.3	84.2
152.5°	75.8	76.7	78.3	79.2	79.2
155°	71.7	73.3	74.2	75.0	75.0
157.5°	69.2	70.0	70.8	71.7	71.7
160°	66.7	66.7	67.5	68.3	68.3
162.5°	64.2	64.2	65.0	65.8	65.8
165°	61.7	62.5	62.5	63.3	63.3
167.5°	60.0	60.0	60.8	60.8	61.7
170°	58.3	58.3	59.2	59.2	59.2
172.5°	56.7	57.5	57.5	57.5	57.5
175°	55.8	55.8	56.7	56.7	56.7
177.5°	55.0	55.8	55.8	55.8	55.8
180°	55.8	55.8	55.8	55.8	55.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	623.3	623.3	575.0	446.7	374.2
110°	570.8	577.5	552.5	502.5	445.0



(END OF REPORT)