

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: P828344

Luminaire Tested: **OHBL-24HE-W-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828344  
REPORT IS A COMBINATION OF REPORTS P826304 AND G3-2310-221-2  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-W-UNV-L940-CD-UPL36  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

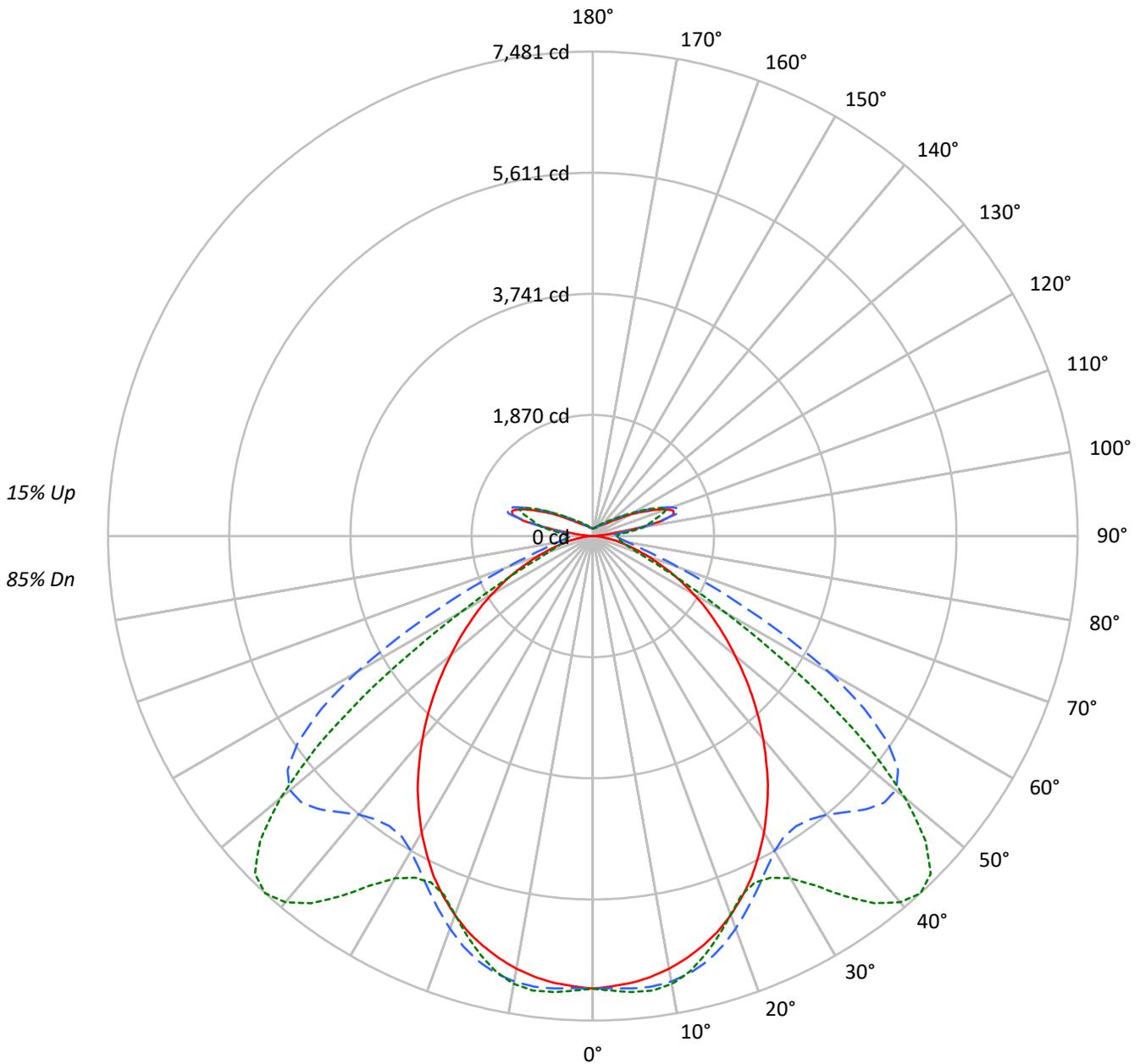
Lumens per Lamp: N/A  
Luminaire Lumens: 24037.6 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 161.8  
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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	77	75	72																			
2	96	89	82	77	93	86	80	75	80	75	71	74	70	67	69	66	63	61																			
3	88	78	70	64	84	75	68	62	70	64	59	66	61	57	61	57	54	51																			
4	80	69	61	54	77	67	59	53	62	56	51	58	53	48	55	50	46	44																			
5	74	61	53	46	71	59	51	45	56	49	44	52	46	42	49	44	40	38																			
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33																			
7	63	50	41	35	60	48	40	35	45	38	33	43	37	32	40	35	31	29																			
8	58	45	37	31	56	44	36	31	41	34	30	39	33	29	37	31	27	25																			
9	54	41	33	28	52	40	33	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20																			

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

	0°	45°	90°
0°	11051	11051	11051
5°	10902	11041	11177
10°	10720	11029	11191
15°	10466	10852	10832
20°	10135	10483	10301
25°	9709	10037	10095
30°	9160	9706	10863
35°	8542	9891	12712
40°	7835	10719	14695
45°	7101	12167	15796
50°	6340	13464	14699
55°	5624	13460	11232
60°	4898	11401	6867
65°	4137	7883	4160
70°	3290	5106	3003
75°	2423	3669	2785
80°	1647	3237	3142
85°	997	3587	4966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.8	2.8
10°-20°	1890.9	7.9
20°-30°	2767.1	11.5
30°-40°	3593.6	15.0
40°-50°	4388.3	18.3
50°-60°	3864.6	16.1
60°-70°	2013.9	8.4
70°-80°	863.6	3.6
80°-90°	421.4	1.8
90°-100°	434.0	1.8
100°-110°	1204.5	5.0
110°-120°	968.3	4.0
120°-130°	463.3	1.9
130°-140°	234.4	1.0
140°-150°	135.0	0.6
150°-160°	77.0	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	5325.8	22.2
0°-40°	8919.4	37.1
0°-60°	17172.3	71.4
0°-90°	20471.2	85.2
90°-120°	2606.8	10.8
90°-150°	3439.5	14.3
90°-180°	3566.0	14.8
0°-180°	24037.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6988	6988	6988	6988	6988	
5°	6923	6976	7014	7075	7068	657
15°	6551	6735	6800	6748	6694	1844
25°	5804	6115	6011	5898	5904	2664
35°	4711	5209	5470	6379	6787	2937
45°	3469	4365	5966	7223	7374	2675
55°	2310	3823	5556	4871	4330	2073
65°	1325	2649	2543	1414	1217	1311
75°	534	1239	817	559	531	582
85°	113	442	416	407	412	126
90°	8	202	329	376	385	13
95°	57	201	362	439	460	203
105°	1290	1334	1347	1067	983	1227
115°	905	914	978	1003	998	915
125°	451	472	518	525	518	424
135°	270	276	298	317	320	213
145°	202	203	209	220	224	128
155°	165	168	167	169	169	75
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6988.0	6988.0	6988.0	6988.0	6988.0
2.5°	6957.8	6988.0	6989.5	7031.7	7027.2
5°	6923.1	6975.9	7013.5	7075.4	7067.9
7.5°	6865.8	6948.8	7015.1	7082.9	7076.9
10°	6784.4	6897.5	6984.9	7040.8	7022.7
12.5°	6678.9	6828.2	6914.1	6926.2	6891.5
15°	6550.7	6734.7	6799.5	6748.3	6693.9
17.5°	6406.0	6621.6	6644.2	6532.7	6464.8
20°	6225.0	6470.8	6448.2	6294.4	6219.0
22.5°	6024.6	6305.0	6232.6	6071.3	5998.9
25°	5804.5	6115.1	6011.0	5898.0	5904.0
27.5°	5546.6	5899.4	5798.4	5849.7	5946.1
30°	5284.3	5673.3	5611.5	5910.0	6099.9
32.5°	4996.3	5441.1	5496.9	6086.4	6396.9
35°	4711.4	5208.9	5469.8	6378.9	6787.4
37.5°	4396.3	4973.7	5513.5	6716.5	7144.7
40°	4090.2	4744.6	5613.0	7019.6	7381.5
42.5°	3778.2	4539.5	5780.3	7199.0	7481.0
45°	3469.1	4364.6	5965.8	7223.2	7373.9
47.5°	3160.0	4216.9	6093.9	7031.7	6962.3
50°	2861.5	4085.7	6103.0	6571.9	6288.4
52.5°	2582.6	3965.1	5937.1	5839.1	5398.9
55°	2309.7	3823.4	5555.7	4871.2	4330.0
57.5°	2060.9	3627.4	4967.7	3830.9	3239.9
60°	1797.1	3362.1	4207.9	2802.7	2336.9
62.5°	1554.4	3031.9	3356.1	1950.9	1679.5
65°	1325.2	2648.9	2543.4	1414.2	1216.7
67.5°	1082.5	2252.5	1877.0	1031.2	904.6
70°	892.6	1884.5	1397.6	802.1	728.2
72.5°	698.1	1534.8	1044.8	651.3	610.6
75°	533.7	1239.3	817.1	559.3	530.7
77.5°	393.5	980.0	657.3	494.5	467.4
80°	275.9	771.9	550.3	441.8	431.2
82.5°	185.5	597.0	468.9	420.6	422.1
85°	113.1	441.8	416.1	407.1	411.6
87.5°	54.3	313.6	357.3	370.9	375.4
90°	8.4	202.4	329.2	376.2	384.6
92.5°	21.7	174.3	308.1	363.9	376.6
95°	56.9	201.3	362.0	438.9	460.4
97.5°	328.2	426.4	499.4	597.7	623.1
100°	702.7	782.8	730.4	772.5	794.4
102.5°	1098.3	1167.3	1033.2	915.1	892.0
105°	1290.2	1334.3	1346.8	1066.7	982.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1061.1	1090.8	1144.5	1162.2	1137.4
115°	904.6	913.5	977.8	1003.4	997.8
117.5°	776.5	784.4	841.1	855.7	847.7
120°	654.8	666.9	719.3	725.2	719.7
122.5°	544.4	564.1	610.9	618.8	609.0
125°	451.3	471.5	518.2	525.4	518.2
127.5°	387.3	393.9	439.3	450.0	451.6
130°	334.2	341.2	377.9	394.7	395.9
132.5°	297.7	304.7	334.5	352.1	357.8
135°	269.9	276.0	298.0	317.2	319.6
137.5°	247.3	252.5	268.2	287.7	291.6
140°	228.1	233.4	244.6	263.2	264.7
142.5°	214.0	217.7	226.6	241.3	242.7
145°	201.6	202.9	208.8	220.4	224.3
147.5°	191.2	193.1	197.5	204.4	206.8
150°	181.6	184.2	184.7	189.5	193.3
152.5°	172.9	175.5	176.0	176.8	180.8
155°	165.1	167.7	167.3	169.0	169.0
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1303.9	1345.7	1394.3	1268.6	<i>1120.4</i>
110°	1203.9	1248.3	1299.2	1273.8	<i>1208.1</i>



(END OF REPORT)