

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: P828393

Luminaire Tested: **OHBL-36HE-N-UNV-L940-CD-UPL18**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828393  
REPORT IS A COMBINATION OF REPORTS P826170 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-N-UNV-L940-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

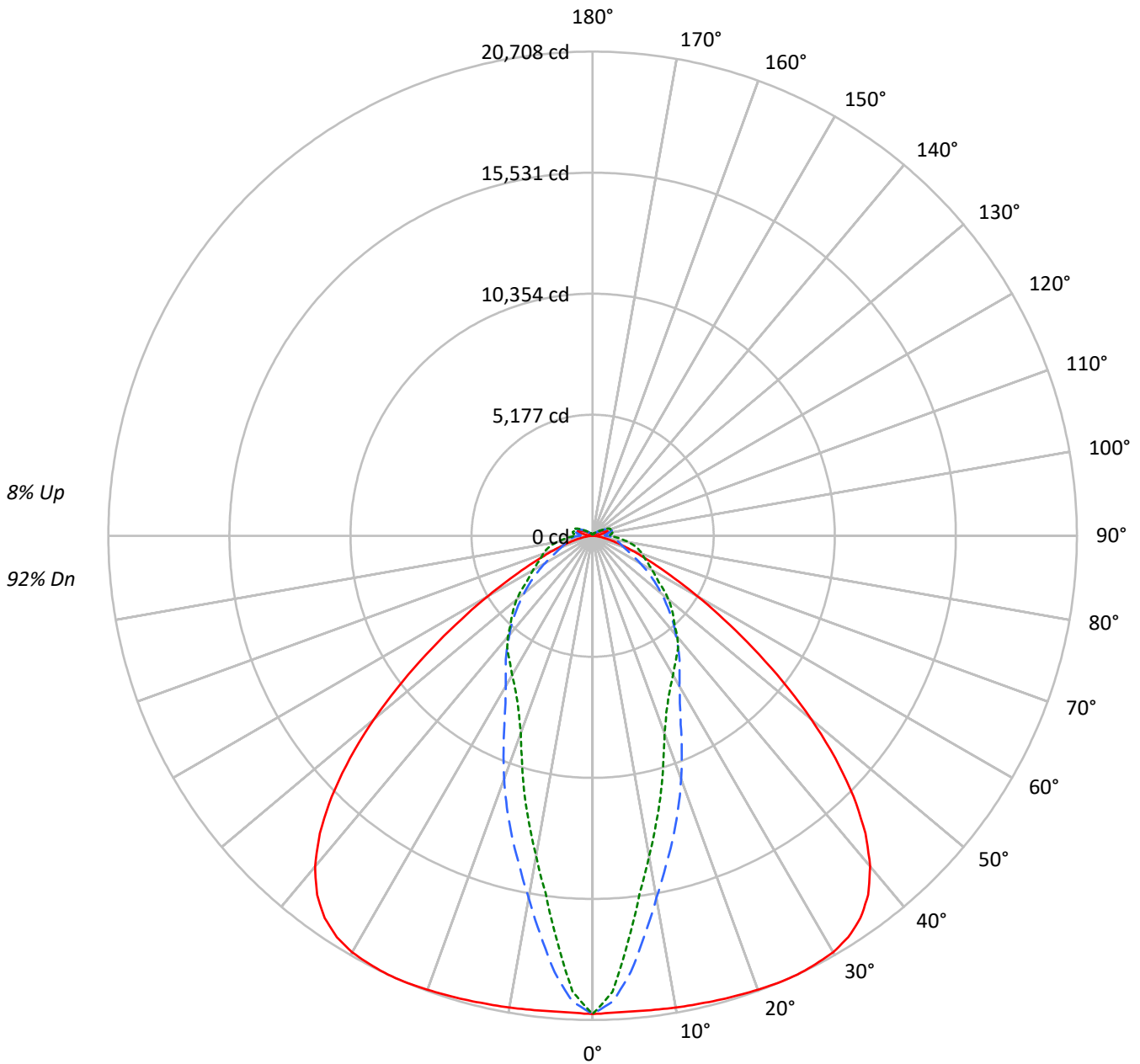
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31747.7 lumens  
Efficiency: N/A  
Efficacy: 141.5 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): 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	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	95	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	46	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	40	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°	32351	32351	32351
5°	32149	29475	27525
10°	32375	24839	22179
15°	32865	21253	18294
20°	33638	17979	14873
25°	34638	14889	13102
30°	35656	12833	12242
35°	36199	11702	11737
40°	35363	10577	11213
45°	32309	9565	10464
50°	27040	8457	9912
55°	20349	7415	8919
60°	14090	6367	8656
65°	9330	5492	8626
70°	6236	5164	9274
75°	4190	5342	10277
80°	2732	5944	11248
85°	1424	7503	13413



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1722.0	5.4
10°-20°	4050.9	12.8
20°-30°	5077.7	16.0
30°-40°	5388.1	17.0
40°-50°	4871.7	15.3
50°-60°	3532.3	11.1
60°-70°	2216.7	7.0
70°-80°	1466.9	4.6
80°-90°	849.0	2.7
90°-100°	558.3	1.8
100°-110°	799.6	2.5
110°-120°	618.6	1.9
120°-130°	297.8	0.9
130°-140°	145.4	0.5
140°-150°	83.1	0.3
150°-160°	45.3	0.1
160°-170°	18.7	0.1
170°-180°	5.7	0.0
0°-30°	10850.6	34.2
0°-40°	16238.7	51.1
0°-60°	24642.6	77.6
0°-90°	29175.2	91.9
90°-120°	1976.4	6.2
90°-150°	2502.7	7.9
90°-180°	2572.0	8.1
0°-180°	31747.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20456	20456	20456	20456	20456	
5°	20415	19892	18724	17855	17406	###
15°	20571	16767	13317	11843	11306	5834
25°	20708	12964	8917	7914	7663	9567
35°	19966	8619	6472	6269	6267	12412
45°	15784	5459	4690	4803	4885	12024
55°	8356	3384	3060	3320	3438	7550
65°	2988	1962	1772	2270	2523	3110
75°	923	1057	1190	1848	1959	1029
85°	162	438	870	1211	1112	194
90°	4	205	534	750	760	13
95°	41	200	556	749	797	111
105°	660	724	867	812	794	627
115°	467	512	668	718	723	471
125°	241	259	345	373	370	225
135°	148	155	184	213	214	117
145°	117	121	128	144	142	74
155°	98	106	108	111	108	42
165°	64	65	65	66	66	18
175°	58	58	59	59	59	6
180°	58	58	58	58	58	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	20456.3	20456.3	20456.3	20456.3	20456.3
2.5°	20413.5	20296.7	19932.6	19710.7	19523.7
5°	20415.4	19891.8	18723.6	17855.3	17405.5
7.5°	20444.6	19280.4	17175.8	15908.3	15413.8
10°	20489.4	18523.0	15731.1	14380.0	13918.6
12.5°	20522.5	17670.2	14459.8	13071.7	12565.5
15°	20571.2	16766.9	13316.9	11843.1	11305.8
17.5°	20616.0	15916.1	12187.7	10647.7	10050.0
20°	20660.8	14999.1	11058.6	9471.8	8979.2
22.5°	20703.6	14031.4	9956.5	8558.6	8221.8
25°	20707.5	12964.5	8916.9	7914.2	7663.1
27.5°	20656.9	11858.7	8073.9	7375.0	7219.2
30°	20569.2	10786.0	7419.8	6985.6	6874.6
32.5°	20351.2	9691.8	6913.6	6609.8	6545.5
35°	19965.7	8619.1	6471.5	6269.1	6267.1
37.5°	19358.3	7667.0	5992.6	5957.6	6000.4
40°	18460.7	6833.7	5539.0	5632.4	5632.4
42.5°	17263.3	6109.4	5128.2	5223.6	5198.3
45°	15783.7	5459.2	4690.1	4803.1	4884.8
47.5°	14068.5	4886.8	4242.4	4460.4	4573.4
50°	12203.3	4341.7	3833.5	4111.9	4240.4
52.5°	10248.6	3837.4	3434.4	3753.7	3856.9
55°	8356.2	3383.8	3060.5	3319.5	3438.3
57.5°	6642.9	2951.5	2694.6	2939.9	3185.2
60°	5169.1	2579.6	2349.9	2700.4	2945.7
62.5°	3948.3	2248.7	2026.8	2476.5	2721.8
65°	2988.5	1962.5	1771.7	2270.1	2523.2
67.5°	2252.6	1715.2	1573.1	2120.2	2367.5
70°	1691.9	1475.8	1413.5	2026.8	2248.7
72.5°	1249.9	1255.7	1287.0	1944.9	2114.4
75°	922.8	1057.2	1189.6	1847.7	1958.6
77.5°	660.0	876.1	1101.9	1730.8	1769.8
80°	457.5	714.5	1010.5	1577.0	1543.9
82.5°	286.2	572.4	928.7	1407.6	1316.1
85°	161.6	438.0	870.3	1211.0	1111.7
87.5°	72.1	327.1	761.3	944.2	882.0
90°	3.5	204.8	533.8	749.7	760.0
92.5°	15.2	180.6	513.1	716.3	742.8
95°	40.9	199.8	556.1	748.8	796.8
97.5°	179.3	298.1	623.6	805.9	843.2
100°	361.2	468.1	691.3	838.5	863.2
102.5°	560.5	639.5	747.1	825.7	836.1
105°	659.8	723.8	867.4	811.7	793.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	542.9	593.0	759.8	810.1	798.2
115°	467.4	511.6	668.4	717.7	722.7
117.5°	403.3	435.2	575.1	622.0	624.9
120°	340.7	370.1	490.5	528.7	527.0
122.5°	288.6	312.0	413.6	444.1	440.5
125°	240.7	258.9	344.8	373.2	369.5
127.5°	205.7	217.4	289.5	316.0	312.2
130°	181.4	191.4	243.4	271.4	272.3
132.5°	162.9	169.5	209.7	237.8	239.5
135°	148.2	154.7	184.3	213.3	214.1
137.5°	136.9	145.3	164.3	191.4	192.2
140°	127.3	133.8	148.1	173.2	174.1
142.5°	121.4	126.0	136.3	156.7	157.5
145°	117.3	120.9	127.5	143.9	142.0
147.5°	111.2	116.8	120.5	132.0	130.0
150°	106.0	113.5	115.3	122.0	120.9
152.5°	102.5	109.2	110.9	115.7	113.7
155°	98.2	105.7	108.5	111.4	107.5
157.5°	72.2	73.0	73.9	74.8	74.8
160°	69.6	69.6	70.4	71.3	71.3
162.5°	66.9	66.9	67.8	68.7	68.7
165°	64.3	65.2	65.2	66.1	66.1
167.5°	62.6	62.6	63.5	63.5	64.3
170°	60.9	60.9	61.7	61.7	61.7
172.5°	59.1	60.0	60.0	60.0	60.0
175°	58.3	58.3	59.1	59.1	59.1
177.5°	57.4	58.3	58.3	58.3	58.3
180°	58.3	58.3	58.3	58.3	58.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	665.9	730.2	895.9	849.5	787.5
110°	613.1	674.6	847.1	866.9	820.6



(END OF REPORT)