

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: P827207

Luminaire Tested: **OHBL-36SE-NL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827207  
REPORT IS A COMBINATION OF REPORTS P826177 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-36SE-NL-UNV-L840-CD-UPL18  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1800 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

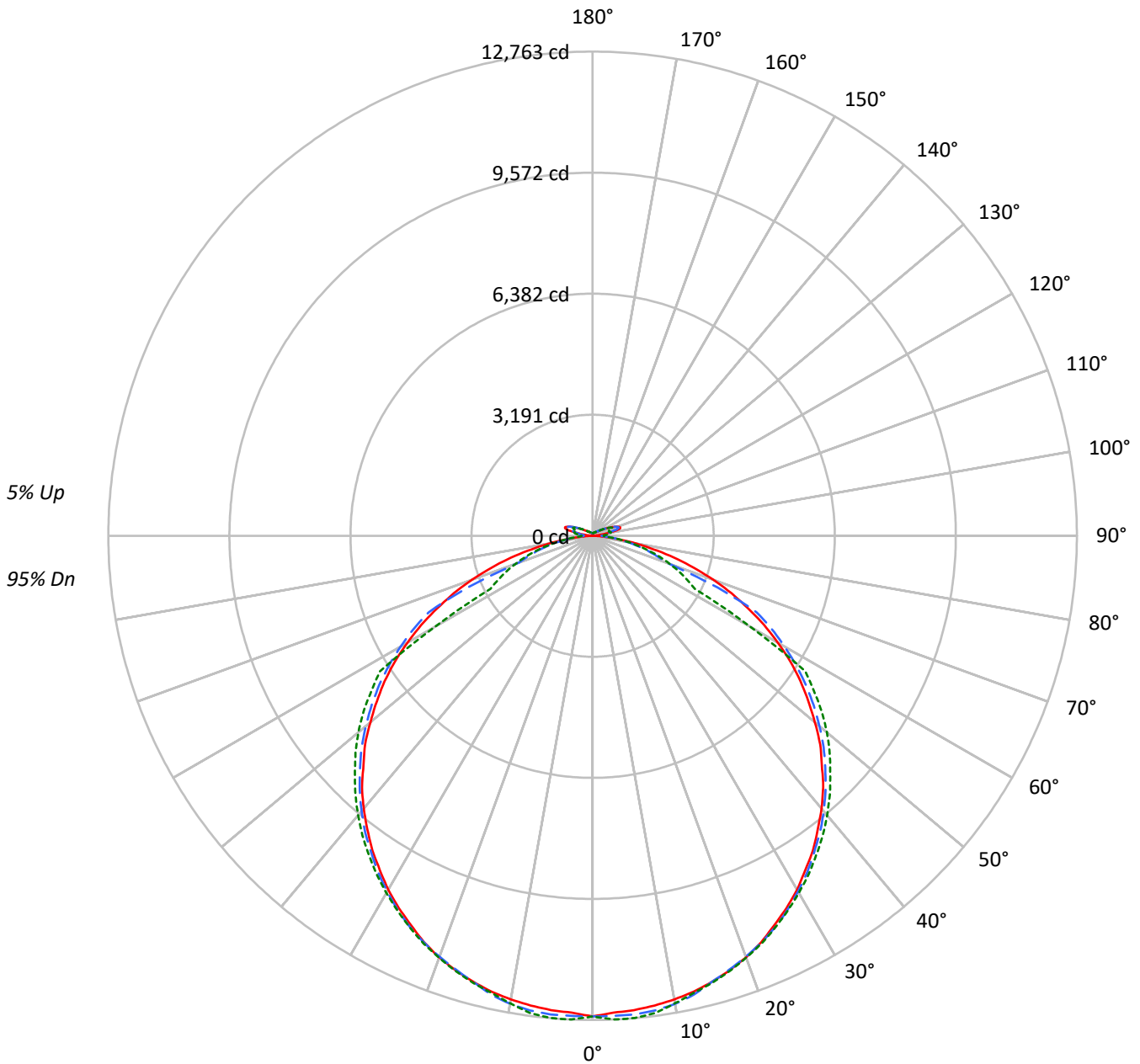
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37360.9 lumens  
Efficiency: N/A  
Efficacy: 167.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 223.3  
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	114	114	114	114	108	108	108	102	102	102	97	97	97	95																			
1	108	103	99	96	105	101	97	94	96	93	90	91	88	86	86	84	83	80																			
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67																			
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	57																			
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49																			
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	40	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	33																			
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	29																			
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26																			
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	24																			

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

	0°	45°	90°
0°	20036	20036	20036
5°	19829	20004	20211
10°	19738	19917	20002
15°	19635	19620	19827
20°	19506	19460	19729
25°	19266	19342	19639
30°	19062	19134	19553
35°	18814	18886	19477
40°	18514	18653	19419
45°	18092	18323	19298
50°	17642	17952	19221
55°	17093	17480	18895
60°	16267	16779	14597
65°	15075	15878	9723
70°	13538	8175	9296
75°	11273	7404	8667
80°	7959	6217	7589
85°	3231	5021	6565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1203.6	3.2
10°-20°	3446.4	9.2
20°-30°	5243.9	14.0
30°-40°	6375.9	17.1
40°-50°	6704.0	17.9
50°-60°	6121.5	16.4
60°-70°	3924.2	10.5
70°-80°	1853.7	5.0
80°-90°	518.5	1.4
90°-100°	307.4	0.8
100°-110°	631.9	1.7
110°-120°	521.2	1.4
120°-130°	245.3	0.7
130°-140°	122.6	0.3
140°-150°	71.2	0.2
150°-160°	41.5	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	9894.0	26.5
0°-40°	16269.9	43.5
0°-60°	29095.3	77.9
0°-90°	35391.8	94.7
90°-120°	1460.5	3.9
90°-150°	1899.5	5.1
90°-180°	1969.0	5.3
0°-180°	37360.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12670	12670	12670	12670	12670	
5°	12552	12600	12665	12734	12761	###
15°	12171	12262	12169	12187	12196	3436
25°	11327	11344	11384	11402	11393	5226
35°	10124	10064	10180	10304	10275	6327
45°	8539	8523	8668	8872	8857	6600
55°	6691	6640	6865	7094	7112	5968
65°	4508	4508	4771	2737	2746	4470
75°	2228	2270	1474	1552	1558	2348
85°	291	369	460	498	471	430
90°	4	150	238	287	288	16
95°	45	146	276	365	389	123
105°	752	758	662	476	440	714
115°	524	534	540	528	513	525
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12669.5	12669.5	12669.5	12669.5	12669.5
2.5°	12580.5	12622.9	12669.5	12729.5	12762.7
5°	12551.6	12600.5	12665.0	12734.0	12760.6
7.5°	12489.4	12558.1	12620.5	12669.5	12685.0
10°	12411.5	12493.9	12529.4	12525.0	12513.9
12.5°	12307.0	12393.9	12382.8	12331.5	12340.4
15°	12171.4	12262.5	12169.3	12187.0	12195.9
17.5°	12011.4	12100.4	11991.4	12026.9	12029.3
20°	11824.7	11891.4	11806.9	11835.8	11835.8
22.5°	11600.2	11646.8	11611.3	11631.3	11635.8
25°	11326.7	11344.4	11384.4	11402.3	11393.3
27.5°	11064.5	11042.2	11120.1	11162.2	11139.8
30°	10773.1	10737.6	10828.7	10897.6	10871.0
32.5°	10439.6	10417.5	10522.0	10604.1	10588.6
35°	10124.0	10064.0	10179.5	10304.1	10275.1
37.5°	9750.5	9714.9	9846.0	9977.4	9961.8
40°	9385.9	9325.9	9474.9	9630.4	9614.9
42.5°	8994.7	8923.4	9085.8	9272.7	9254.8
45°	8538.8	8523.3	8667.8	8872.3	8856.8
47.5°	8134.5	8056.6	8258.7	8456.7	8474.6
50°	7645.1	7616.4	7800.9	8041.0	8058.7
52.5°	7167.3	7147.3	7340.6	7583.0	7614.1
55°	6691.4	6640.4	6864.9	7093.9	7111.8
57.5°	6182.6	6129.1	6358.2	6607.2	6644.8
60°	5637.7	5586.6	5837.8	6069.1	4826.4
62.5°	5093.1	5057.5	5320.0	3768.2	3036.9
65°	4508.4	4508.4	4770.6	2736.6	2745.5
67.5°	3961.7	3926.1	3557.1	2458.6	2458.6
70°	3374.7	3388.1	2049.6	2154.3	2156.4
72.5°	2785.5	2834.5	1769.7	1854.0	1858.4
75°	2227.5	2269.9	1473.9	1551.8	1558.4
77.5°	1636.3	1258.3	1184.8	1245.1	1247.2
80°	1149.3	793.7	907.1	964.8	958.2
82.5°	671.3	555.7	664.7	707.0	704.7
85°	291.1	369.1	460.1	498.0	471.2
87.5°	93.2	229.0	286.7	309.0	306.7
90°	4.0	149.5	238.5	287.2	288.0
92.5°	13.0	130.7	232.9	298.4	308.5
95°	44.6	146.5	275.9	364.9	388.9
97.5°	199.5	259.6	342.5	437.6	458.0
100°	406.5	459.7	423.0	482.1	490.4
102.5°	640.1	659.1	496.1	481.1	477.4
105°	752.1	758.5	661.5	476.5	440.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	615.4	623.9	618.5	595.9	555.1
115°	524.1	534.5	540.1	527.5	513.1
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	759.1	770.1	721.1	556.0	455.6
110°	698.4	713.0	689.6	620.9	536.1



(END OF REPORT)