

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: P830437

Luminaire Tested: **OHBL-36SE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

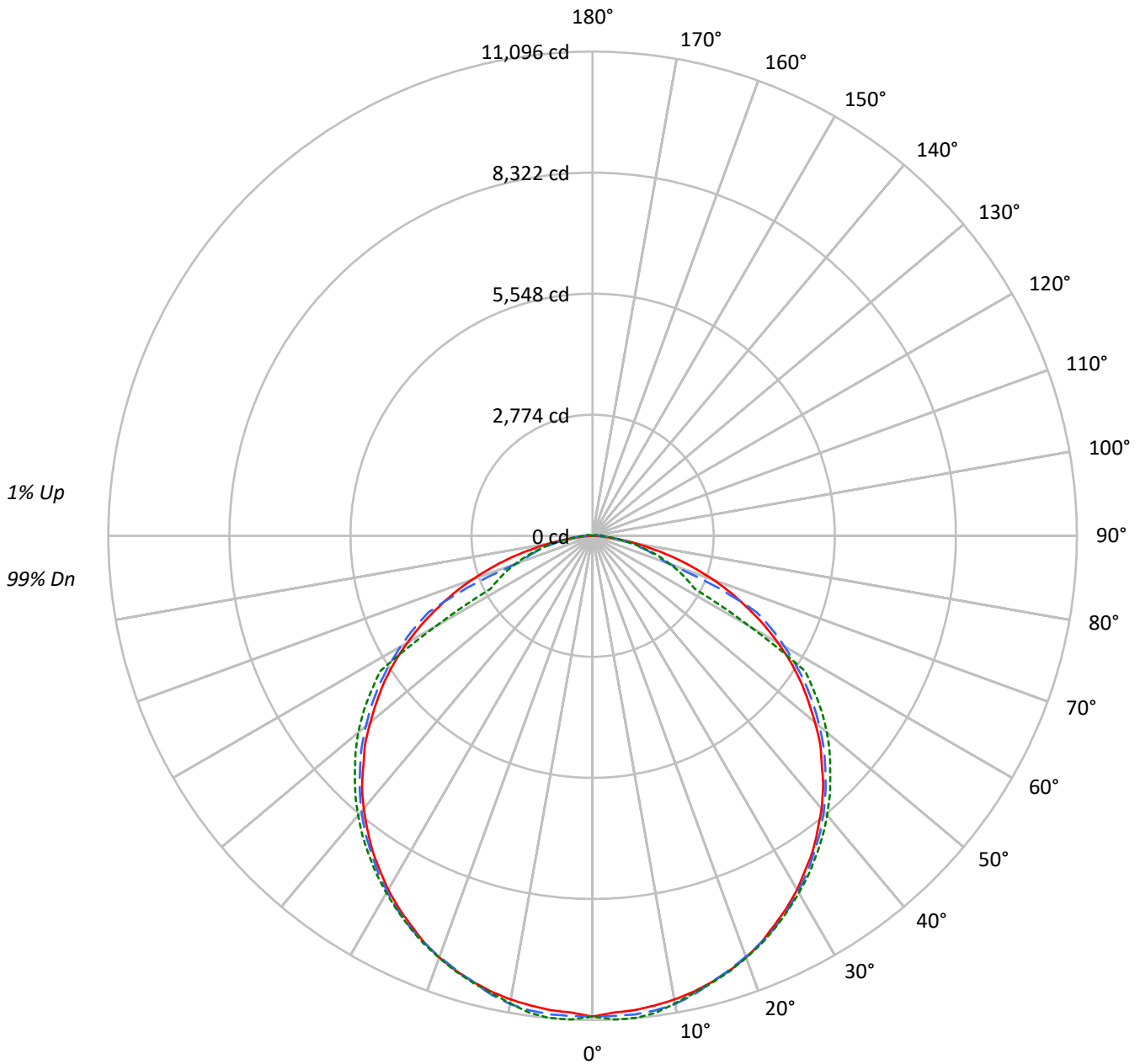
Test Method: LM-79-08  
Report Number: P830437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-36SE-NL-UNV-L940-CD  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30927.0 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102				99																
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86				84																
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73				71																
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62				60																
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53				51																
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46				44																
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41				39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36				34																
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32				30																
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29				27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26				25																

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

	0°	45°	90°
0°	17421	17421	17421
5°	17324	17481	17613
10°	17329	17494	17472
15°	17326	17323	17361
20°	17303	17276	17319
25°	17184	17272	17285
30°	17105	17193	17260
35°	16994	17087	17247
40°	16847	17007	17258
45°	16604	16855	17223
50°	16354	16687	17239
55°	16041	16457	17049
60°	15504	16054	13273
65°	14668	15521	8933
70°	13567	8240	8669
75°	11834	7830	8279
80°	9100	7183	7587
85°	4593	7260	7434



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.5	3.4
10°-20°	2996.4	9.7
20°-30°	4559.3	14.7
30°-40°	5543.5	17.9
40°-50°	5828.7	18.8
50°-60°	5322.3	17.2
60°-70°	3411.9	11.0
70°-80°	1611.7	5.2
80°-90°	446.9	1.4
90°-100°	118.4	0.4
100°-110°	32.4	0.1
110°-120°	9.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8602.2	27.8
0°-40°	14145.7	45.7
0°-60°	25296.8	81.8
0°-90°	30767.2	99.5
90°-120°	159.8	0.5
90°-150°	159.8	0.5
90°-180°	160.0	0.5
0°-180°	30927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11015	11015	11015	11015	11015	
5°	10913	10955	11012	11072	11095	###
15°	10582	10662	10580	10596	10604	2988
25°	9848	9863	9898	9914	9906	4544
35°	8802	8750	8850	8959	8934	5501
45°	7424	7410	7536	7714	7700	5738
55°	5818	5773	5969	6168	6183	5189
65°	3920	3920	4148	2379	2387	3886
75°	1937	1974	1281	1349	1355	2042
85°	253	321	400	433	410	374
90°	0	108	178	211	207	11
95°	6	56	128	172	172	3
105°	10	21	31	31	29	10
115°	10	14	19	14	2	7
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11015.4	11015.4	11015.4	11015.4	<i>11015.4</i>
2.5°	<i>10938.0</i>	<i>10974.9</i>	<i>11015.4</i>	<i>11067.6</i>	<i>11096.4</i>
5°	10912.9	10955.4	11011.5	11071.5	<i>11094.6</i>
7.5°	10858.9	10918.6	10972.8	11015.4	<i>11028.9</i>
10°	10791.1	10862.7	10893.6	10889.8	<i>10880.1</i>
12.5°	10700.3	10775.8	10766.2	10721.5	<i>10729.3</i>
15°	10582.4	10661.6	10580.5	10595.9	<i>10603.7</i>
17.5°	10443.2	10520.6	10425.8	10456.7	<i>10458.8</i>
20°	10281.0	10338.9	10265.4	10290.6	<i>10290.6</i>
22.5°	10085.7	10126.3	10095.4	10112.7	<i>10116.6</i>
25°	9847.9	9863.3	9898.1	9913.6	<i>9905.9</i>
27.5°	9620.0	9600.5	9668.3	9704.9	<i>9685.5</i>
30°	9366.6	9335.7	9414.9	9474.9	<i>9451.8</i>
32.5°	9076.7	9057.4	9148.3	9219.7	<i>9206.2</i>
35°	8802.3	8750.1	8850.5	8958.8	<i>8933.6</i>
37.5°	8477.5	8446.6	8560.6	8674.8	<i>8661.3</i>
40°	8160.5	8108.3	8237.9	8373.1	<i>8359.6</i>
42.5°	7820.4	7758.4	7899.6	8062.1	<i>8046.5</i>
45°	7424.0	7410.5	7536.2	7714.0	<i>7700.5</i>
47.5°	7072.5	7004.7	7180.5	7352.6	<i>7368.2</i>
50°	6647.0	6622.1	6782.5	6991.2	<i>7006.6</i>
52.5°	6231.6	6214.2	6382.2	6593.0	<i>6620.0</i>
55°	5817.8	5773.4	5968.6	6167.8	<i>6183.3</i>
57.5°	5375.4	5329.0	5528.1	5744.6	<i>5777.3</i>
60°	4901.7	4857.3	5075.6	5276.8	<i>4196.3</i>
62.5°	4428.1	4397.2	4625.4	3276.2	<i>2640.4</i>
65°	3919.8	3919.8	4147.8	2379.3	<i>2387.1</i>
67.5°	3444.4	3413.5	3092.7	2137.6	<i>2137.6</i>
70°	2934.1	2945.7	1782.0	1873.0	<i>1874.9</i>
72.5°	2421.9	2464.4	1538.7	1611.9	<i>1615.8</i>
75°	1936.7	1973.5	1281.4	1349.2	<i>1354.9</i>
77.5°	1422.6	1094.0	1030.1	1082.5	<i>1084.4</i>
80°	999.2	690.0	788.7	838.8	<i>833.1</i>
82.5°	583.6	483.1	577.9	614.7	<i>612.7</i>
85°	253.1	320.9	400.1	433.0	<i>409.7</i>
87.5°	81.0	199.1	249.2	268.7	<i>266.6</i>
90°	0.0	108.3	177.8	210.6	<i>206.9</i>
92.5°	0.0	84.9	154.7	193.4	<i>195.2</i>
95°	5.7	56.1	127.7	172.1	<i>172.1</i>
97.5°	3.9	40.5	90.9	135.3	<i>139.2</i>
100°	3.9	32.7	60.0	96.6	<i>98.6</i>
102.5°	9.6	27.0	36.6	61.8	<i>63.8</i>
105°	9.6	21.3	30.9	30.9	<i>29.1</i>



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	11.7	15.6	21.3	15.6	1.8
115°	9.6	13.5	19.2	13.5	1.8
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	9.6	19.2	27.0	17.4	5.7
110°	11.7	17.4	23.1	15.6	1.8



(END OF REPORT)