

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: P830795

Luminaire Tested: **OHBL-72SE-NL-UNV-L930-CD**

Issue Date: 5/3/2024



**Test Information**

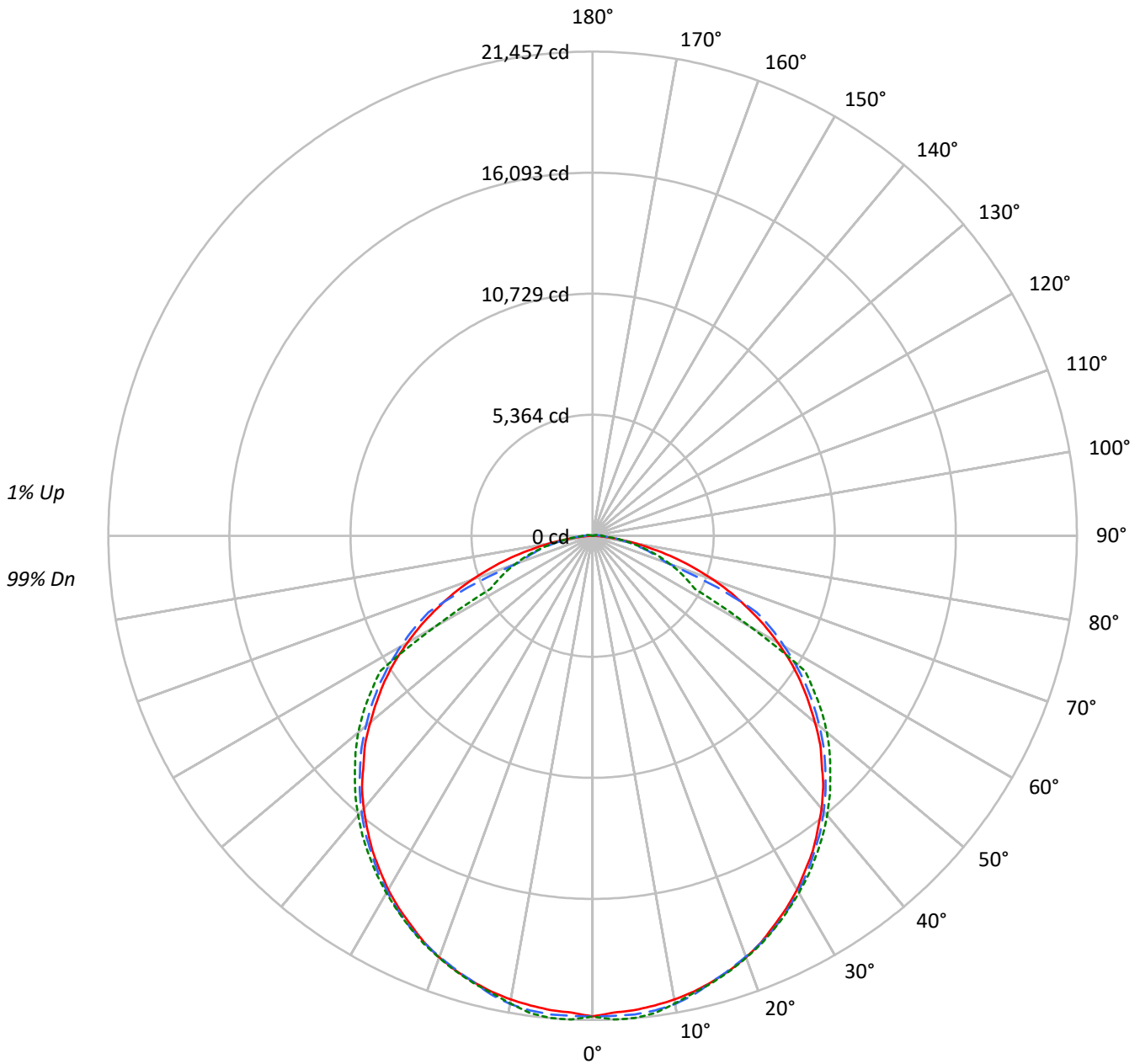
Test Method: LM-79-08  
Report Number: P830795  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-72SE-NL-UNV-L930-CD  
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59804.0 lumens  
Efficiency: N/A  
Efficacy: 144.6 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): 413.7  
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°	33686	33686	33686
5°	33500	33803	34058
10°	33510	33828	33786
15°	33504	33498	33571
20°	33458	33408	33489
25°	33230	33399	33425
30°	33076	33246	33376
35°	32861	33041	33352
40°	32578	32886	33372
45°	32108	32593	33303
50°	31624	32268	33334
55°	31019	31823	32968
60°	29980	31044	25665
65°	28364	30014	17273
70°	26235	15933	16764
75°	22883	15141	16009
80°	17597	13890	14671
85°	8882	14037	14375



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2023.6	3.4
10°-20°	5794.2	9.7
20°-30°	8816.4	14.7
30°-40°	10719.5	17.9
40°-50°	11271.1	18.8
50°-60°	10291.9	17.2
60°-70°	6597.6	11.0
70°-80°	3116.6	5.2
80°-90°	864.2	1.4
90°-100°	228.9	0.4
100°-110°	62.7	0.1
110°-120°	17.4	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°	16634.3	27.8
0°-40°	27353.8	45.7
0°-60°	48916.7	81.8
0°-90°	59495.1	99.5
90°-120°	308.9	0.5
90°-150°	308.9	0.5
90°-180°	309.0	0.5
0°-180°	59804.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21301	21301	21301	21301	21301	
5°	21102	21185	21293	21409	21454	###
15°	20463	20616	20460	20489	20504	5777
25°	19043	19073	19140	19170	19155	8787
35°	17021	16920	17114	17324	17275	10637
45°	14356	14330	14573	14917	14890	11096
55°	11250	11164	11542	11927	11957	10033
65°	7580	7580	8021	4601	4616	7515
75°	3745	3816	2478	2609	2620	3948
85°	490	620	774	837	792	724
90°	0	209	344	407	400	21
95°	11	108	247	333	333	6
105°	19	41	60	60	56	19
115°	19	26	37	26	4	13
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°	21300.6	21300.6	21300.6	21300.6	21300.6
2.5°	21151.1	21222.3	21300.6	21401.6	21457.3
5°	21102.4	21184.7	21293.1	21409.1	21453.8
7.5°	20997.9	21113.5	21218.3	21300.6	21326.8
10°	20866.9	21005.4	21065.2	21057.7	21039.1
12.5°	20691.3	20837.3	20818.7	20732.4	20747.4
15°	20463.3	20616.5	20459.8	20489.4	20504.5
17.5°	20194.2	20343.8	20160.6	20220.4	20224.3
20°	19880.4	19992.4	19850.4	19899.0	19899.0
22.5°	19502.9	19581.3	19521.5	19555.2	19562.7
25°	19043.1	19072.8	19140.1	19170.1	19155.1
27.5°	18602.3	18564.7	18695.7	18766.5	18728.9
30°	18112.4	18052.7	18205.8	18321.7	18277.0
32.5°	17551.7	17514.5	17690.2	17828.3	17802.2
35°	17021.0	16920.1	17114.4	17323.8	17275.1
37.5°	16393.1	16333.3	16553.7	16774.5	16748.4
40°	15780.1	15679.2	15929.7	16191.2	16165.1
42.5°	15122.4	15002.5	15275.6	15589.8	15559.7
45°	14355.9	14329.8	14572.8	14916.7	14890.5
47.5°	13676.1	13545.1	13885.0	14217.8	14247.9
50°	12853.4	12805.2	13115.4	13519.0	13548.7
52.5°	12050.1	12016.5	12341.4	12749.0	12801.2
55°	11250.0	11164.2	11541.7	11926.7	11956.8
57.5°	10394.5	10304.7	10689.7	11108.4	11171.7
60°	9478.4	9392.6	9814.8	10203.8	8114.4
62.5°	8562.8	8503.0	8944.2	6335.3	5105.8
65°	7579.8	7579.8	8020.6	4600.9	4616.0
67.5°	6660.6	6600.8	5980.4	4133.6	4133.6
70°	5673.7	5696.2	3445.8	3621.9	3625.5
72.5°	4683.2	4765.5	2975.3	3117.0	3124.5
75°	3745.0	3816.2	2477.9	2608.9	2620.0
77.5°	2751.0	2115.5	1992.0	2093.3	2096.9
80°	1932.2	1334.3	1525.1	1622.0	1610.9
82.5°	1128.6	934.3	1117.5	1188.7	1184.8
85°	489.5	620.5	773.6	837.3	792.2
87.5°	156.7	385.0	482.0	519.6	515.6
90°	0.0	209.3	343.9	407.2	400.1
92.5°	0.0	164.2	299.2	373.9	377.5
95°	11.1	108.4	246.9	332.8	332.8
97.5°	7.5	78.4	175.7	261.6	269.1
100°	7.5	63.3	115.9	186.8	190.7
102.5°	18.6	52.2	70.8	119.5	123.5
105°	18.6	41.2	59.8	59.8	56.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	22.6	30.1	41.2	30.1	3.6
115°	18.6	26.1	37.2	26.1	3.6
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°	18.6	37.2	52.2	33.6	11.1
110°	22.6	33.6	44.7	30.1	3.6



(END OF REPORT)