

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: P830796

Luminaire Tested: **OHBL-72SE-NL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830796
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-L935-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

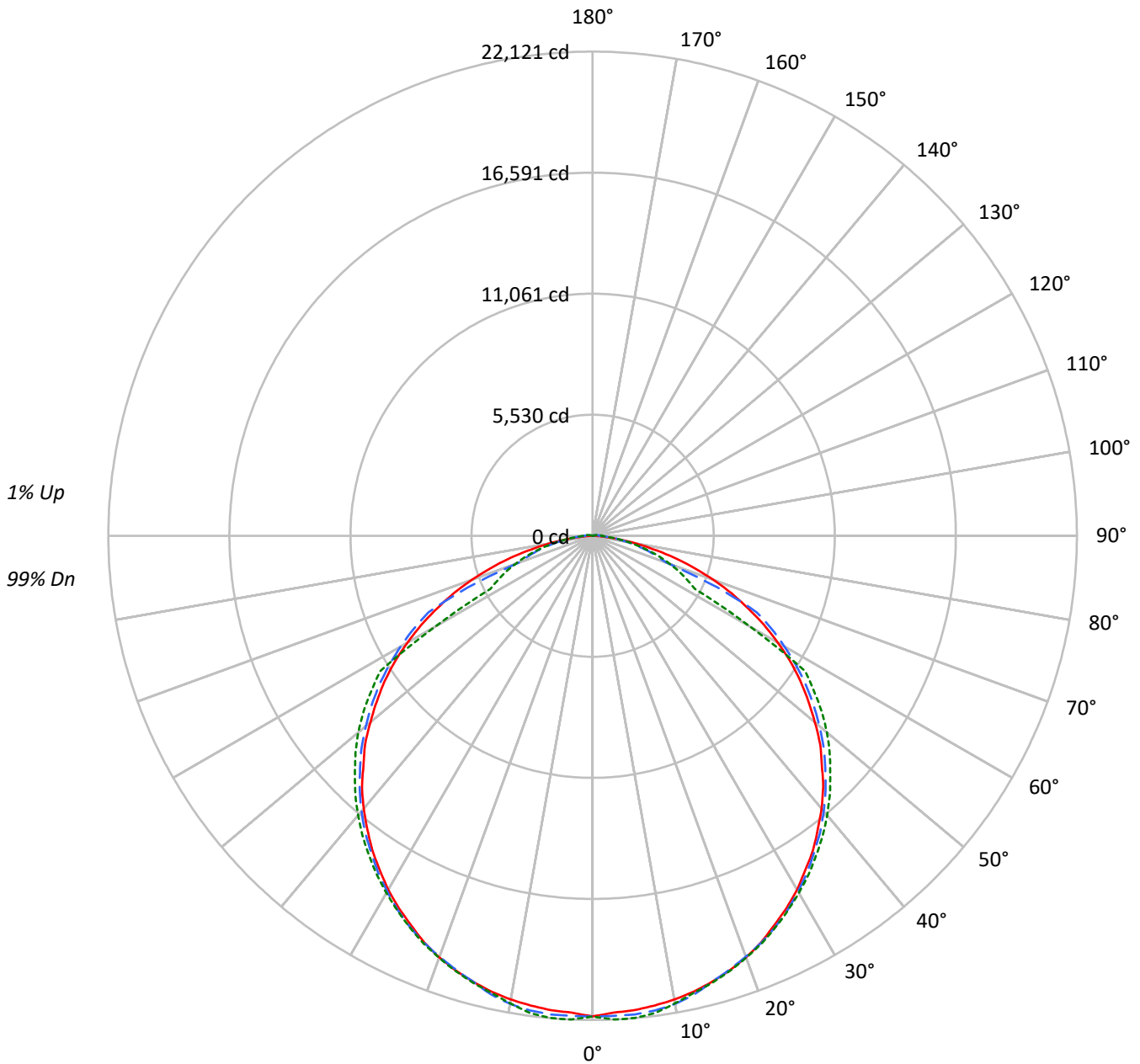
Lumens per Lamp: N/A
Luminaire Lumens: 61654.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P830796

CATALOG NUMBER: OHBL-72SE-NL-UNV-L935-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830796

CATALOG NUMBER: OHBL-72SE-NL-UNV-L935-CD

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°	34729	34729	34729
5°	34537	34849	35112
10°	34546	34874	34831
15°	34540	34534	34610
20°	34493	34441	34525
25°	34257	34432	34459
30°	34099	34275	34409
35°	33878	34064	34383
40°	33585	33904	34405
45°	33101	33601	34334
50°	32602	33266	34366
55°	31978	32807	33987
60°	30907	32004	26459
65°	29242	30942	17807
70°	27046	16426	17282
75°	23591	15610	16504
80°	18142	14319	15125
85°	9156	14471	14819



TEST NUMBER: P830796

CATALOG NUMBER: OHBL-72SE-NL-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2086.2	3.4
10°-20°	5973.5	9.7
20°-30°	9089.1	14.7
30°-40°	11051.1	17.9
40°-50°	11619.7	18.8
50°-60°	10610.2	17.2
60°-70°	6801.7	11.0
70°-80°	3213.0	5.2
80°-90°	890.9	1.4
90°-100°	236.0	0.4
100°-110°	64.6	0.1
110°-120°	17.9	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°	17148.9	27.8
0°-40°	28200.0	45.7
0°-60°	50429.9	81.8
0°-90°	61335.5	99.5
90°-120°	318.5	0.5
90°-150°	318.5	0.5
90°-180°	318.0	0.5
0°-180°	61654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21960	21960	21960	21960	21960	
5°	21755	21840	21952	22071	22117	###
15°	21096	21254	21093	21123	21139	5956
25°	19632	19663	19732	19763	19748	9059
35°	17548	17444	17644	17860	17810	10966
45°	14800	14773	15024	15378	15351	11440
55°	11598	11510	11899	12296	12327	10343
65°	7814	7814	8269	4743	4759	7747
75°	3861	3934	2555	2690	2701	4070
85°	505	640	798	863	817	746
90°	0	216	354	420	412	22
95°	11	112	255	343	343	6
105°	19	42	62	62	58	19
115°	19	27	38	27	4	14
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



TEST NUMBER: P830796

CATALOG NUMBER: OHBL-72SE-NL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21959.6	21959.6	21959.6	21959.6	21959.6
2.5°	21805.4	21878.8	21959.6	22063.6	22121.1
5°	21755.2	21840.0	21951.8	22071.3	22117.4
7.5°	21647.5	21766.6	21874.7	21959.6	21986.5
10°	21512.5	21655.2	21716.8	21709.1	21689.9
12.5°	21331.3	21481.9	21462.7	21373.8	21389.3
15°	21096.3	21254.2	21092.7	21123.3	21138.8
17.5°	20818.9	20973.1	20784.3	20845.9	20849.9
20°	20495.4	20610.9	20464.4	20514.6	20514.6
22.5°	20106.2	20187.0	20125.4	20160.1	20167.8
25°	19632.2	19662.8	19732.2	19763.2	19747.7
27.5°	19177.8	19139.0	19274.0	19347.1	19308.3
30°	18672.7	18611.1	18769.0	18888.5	18842.4
32.5°	18094.6	18056.3	18237.4	18379.8	18352.9
35°	17547.6	17443.6	17643.9	17859.7	17809.5
37.5°	16900.2	16838.6	17065.8	17293.4	17266.5
40°	16268.3	16164.2	16422.5	16692.1	16665.2
42.5°	15590.2	15466.6	15748.1	16072.0	16041.0
45°	14800.0	14773.1	15023.6	15378.1	15351.2
47.5°	14099.2	13964.1	14314.6	14657.7	14688.7
50°	13251.0	13201.3	13521.1	13937.2	13967.8
52.5°	12422.9	12388.2	12723.2	13143.3	13197.2
55°	11598.0	11509.5	11898.7	12295.6	12326.6
57.5°	10716.0	10623.4	11020.4	11452.0	11517.3
60°	9771.6	9683.1	10118.4	10519.4	8365.4
62.5°	8827.6	8766.0	9220.9	6531.3	5263.8
65°	7814.3	7814.3	8268.7	4743.2	4758.7
67.5°	6866.6	6805.0	6165.4	4261.5	4261.5
70°	5849.2	5872.4	3552.4	3734.0	3737.6
72.5°	4828.1	4912.9	3067.4	3213.4	3221.2
75°	3860.8	3934.3	2554.6	2689.6	2701.0
77.5°	2836.1	2180.9	2053.6	2158.1	2161.7
80°	1992.0	1375.6	1572.2	1672.2	1660.8
82.5°	1163.5	963.2	1152.1	1225.5	1221.4
85°	504.6	639.7	797.5	863.2	816.7
87.5°	161.5	396.9	496.9	535.6	531.6
90°	0.0	215.8	354.5	419.8	412.4
92.5°	0.0	169.3	308.4	385.5	389.2
95°	11.4	111.8	254.6	343.1	343.1
97.5°	7.8	80.8	181.1	269.7	277.4
100°	7.8	65.3	119.5	192.6	196.6
102.5°	19.2	53.8	73.0	123.2	127.3
105°	19.2	42.4	61.6	61.6	57.9



TEST NUMBER: P830796

CATALOG NUMBER: OHBL-72SE-NL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.3	31.0	42.4	31.0	3.7
115°	19.2	26.9	38.3	26.9	3.7
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°	19.2	38.3	53.8	34.7	11.4
110°	23.3	34.7	46.1	31.0	3.7



(END OF REPORT)