

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: P830579

Luminaire Tested: **OHBL-48SE-NL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830579
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-48SE-NL-UNV-L930-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

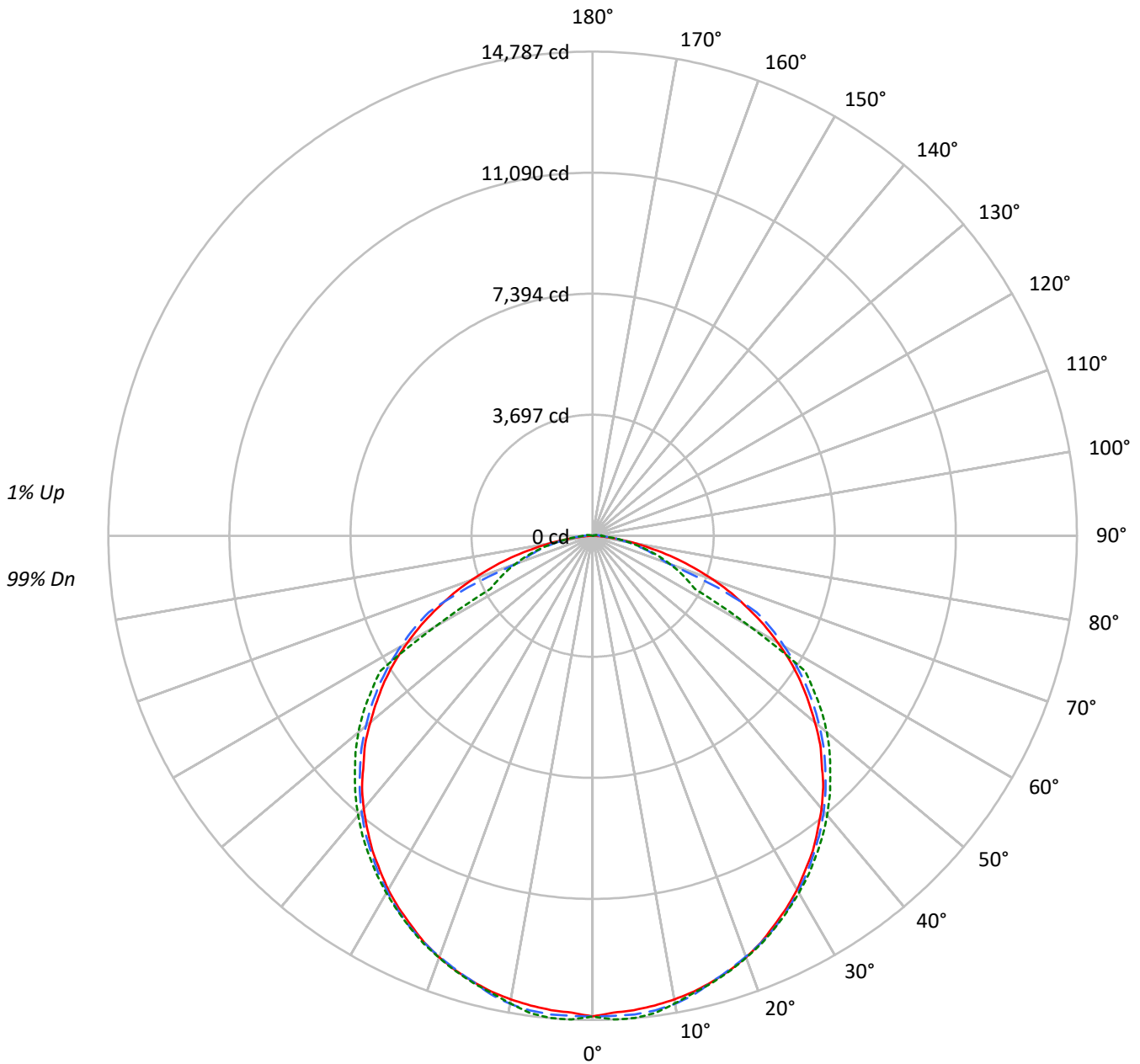
Lumens per Lamp: N/A
Luminaire Lumens: 41212.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 288.8
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				20				20	
RC	80				70				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				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25071	25071	25071
5°	24932	25158	25348
10°	24939	25176	25145
15°	24935	24931	24985
20°	24901	24863	24924
25°	24731	24857	24876
30°	24616	24743	24840
35°	24457	24591	24822
40°	24246	24475	24837
45°	23896	24257	24786
50°	23536	24016	24809
55°	23086	23684	24536
60°	22312	23104	19101
65°	21110	22338	12855
70°	19525	11858	12477
75°	17030	11269	11915
80°	13097	10337	10919
85°	6610	10447	10698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1394.5	3.4
10°-20°	3992.9	9.7
20°-30°	6075.5	14.7
30°-40°	7387.0	17.9
40°-50°	7767.1	18.8
50°-60°	7092.3	17.2
60°-70°	4546.5	11.0
70°-80°	2147.7	5.2
80°-90°	595.5	1.4
90°-100°	157.7	0.4
100°-110°	43.2	0.1
110°-120°	12.0	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°	11463.0	27.8
0°-40°	18850.0	45.7
0°-60°	33709.4	81.8
0°-90°	40999.1	99.5
90°-120°	212.9	0.5
90°-150°	212.9	0.5
90°-180°	213.0	0.5
0°-180°	41212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14679	14679	14679	14679	14679	
5°	14542	14599	14674	14753	14784	###
15°	14102	14207	14099	14120	14130	3981
25°	13123	13143	13190	13210	13200	6055
35°	11730	11660	11794	11938	11905	7330
45°	9893	9875	10042	10279	10261	7647
55°	7753	7693	7954	8219	8240	6914
65°	5223	5223	5527	3171	3181	5179
75°	2581	2630	1708	1798	1806	2720
85°	337	428	533	577	546	499
90°	0	144	237	281	276	15
95°	8	75	170	229	229	4
105°	13	28	41	41	39	13
115°	13	18	26	18	2	9
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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CATALOG NUMBER: OHBL-48SE-NL-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14678.7	14678.7	14678.7	14678.7	14678.7
2.5°	14575.6	14624.7	14678.7	14748.2	14786.6
5°	14542.0	14598.8	14673.5	14753.4	14784.2
7.5°	14470.0	14549.7	14621.9	14678.7	14696.7
10°	14379.8	14475.2	14516.4	14511.2	14498.4
12.5°	14258.7	14359.3	14346.5	14287.1	14297.4
15°	14101.6	14207.2	14099.2	14119.6	14130.0
17.5°	13916.2	14019.3	13893.0	13934.2	13936.9
20°	13700.0	13777.1	13679.2	13712.8	13712.8
22.5°	13439.8	13493.8	13452.6	13475.8	13481.0
25°	13123.0	13143.4	13189.8	13210.5	13200.1
27.5°	12819.2	12793.3	12883.5	12932.3	12906.4
30°	12481.6	12440.4	12545.9	12625.8	12595.0
32.5°	12095.2	12069.6	12190.6	12285.8	12267.8
35°	11729.5	11660.0	11793.9	11938.1	11904.6
37.5°	11296.7	11255.6	11407.5	11559.6	11541.6
40°	10874.3	10804.8	10977.4	11157.7	11139.7
42.5°	10421.1	10338.5	10526.7	10743.2	10722.5
45°	9892.9	9874.9	10042.4	10279.3	10261.3
47.5°	9424.5	9334.2	9568.4	9797.8	9818.5
50°	8857.5	8824.3	9038.1	9316.2	9336.6
52.5°	8304.0	8280.8	8504.7	8785.5	8821.5
55°	7752.6	7693.4	7953.6	8218.9	8239.6
57.5°	7163.0	7101.1	7366.5	7655.0	7698.6
60°	6531.8	6472.6	6763.5	7031.6	5591.8
62.5°	5900.7	5859.6	6163.6	4365.8	3518.5
65°	5223.4	5223.4	5527.2	3170.6	3180.9
67.5°	4589.9	4548.7	4121.2	2848.5	2848.5
70°	3909.8	3925.4	2374.6	2495.9	2498.4
72.5°	3227.3	3284.0	2050.4	2148.0	2153.2
75°	2580.7	2629.8	1707.6	1797.8	1805.5
77.5°	1895.7	1457.8	1372.7	1442.5	1445.0
80°	1331.5	919.5	1050.9	1117.8	1110.1
82.5°	777.7	643.8	770.1	819.2	816.4
85°	337.3	427.6	533.1	577.0	545.9
87.5°	108.0	265.3	332.1	358.0	355.3
90°	0.0	144.3	237.0	280.6	275.7
92.5°	0.0	113.2	206.2	257.7	260.1
95°	7.6	74.7	170.2	229.3	229.3
97.5°	5.2	54.0	121.1	180.2	185.4
100°	5.2	43.6	79.9	128.7	131.4
102.5°	12.8	36.0	48.8	82.4	85.1
105°	12.8	28.4	41.2	41.2	38.7



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CATALOG NUMBER: OHBL-48SE-NL-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.5	20.7	28.4	20.7	2.5
115°	12.8	18.0	25.6	18.0	2.5
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°	12.8	25.6	36.0	23.2	7.6
110°	15.5	23.2	30.8	20.7	2.5



(END OF REPORT)