

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: P827821

Luminaire Tested: **OHBL-48SE-NL-UNV-L930-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827821
REPORT IS A COMBINATION OF REPORTS P826261 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

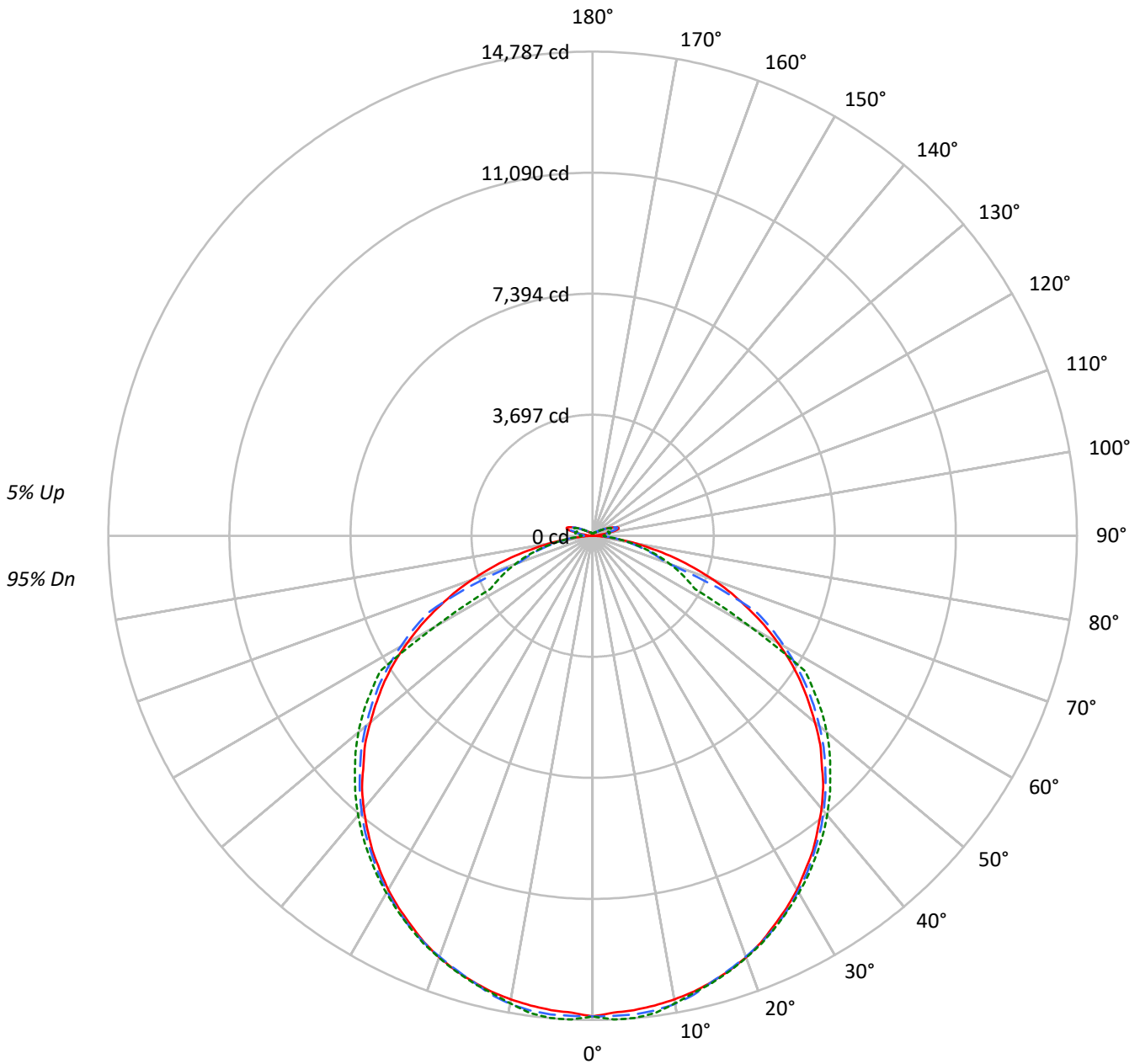
Lumens per Lamp: N/A
Luminaire Lumens: 43168.4 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 306.2
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95																			
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	80																			
2	99	91	84	79	95	88	82	77	84	79	75	80	76	72	76	73	70	68																			
3	90	80	72	66	87	78	70	65	74	68	63	71	66	61	68	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	57	50	45	54	49	44	42																			
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	37																			
7	65	51	43	37	63	50	42	36	48	41	36	47	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°	25071	25071	25071
5°	24802	25024	25289
10°	24678	24908	25028
15°	24541	24529	24809
20°	24369	24322	24687
25°	24058	24168	24574
30°	23792	23900	24466
35°	23471	23582	24371
40°	23083	23281	24298
45°	22543	22860	24147
50°	21965	22385	24051
55°	21264	21783	23643
60°	20212	20892	18265
65°	18704	19749	12166
70°	16762	10153	11631
75°	13915	9176	10844
80°	9772	7676	9495
85°	3921	6150	8215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1394.5	3.2
10°-20°	3992.9	9.2
20°-30°	6075.6	14.1
30°-40°	7387.0	17.1
40°-50°	7767.1	18.0
50°-60°	7092.3	16.4
60°-70°	4546.5	10.5
70°-80°	2147.7	5.0
80°-90°	600.5	1.4
90°-100°	345.1	0.8
100°-110°	693.8	1.6
110°-120°	570.1	1.3
120°-130°	267.8	0.6
130°-140°	134.0	0.3
140°-150°	77.7	0.2
150°-160°	45.3	0.1
160°-170°	23.5	0.1
170°-180°	7.1	0.0
0°-30°	11463.0	26.6
0°-40°	18850.0	43.7
0°-60°	33709.4	78.1
0°-90°	41004.2	95.0
90°-120°	1609.0	3.7
90°-150°	2088.4	4.8
90°-180°	2164.0	5.0
0°-180°	43168.4	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	2721
85°	337	428	533	577	546	499
90°	4	172	275	331	332	18
95°	50	164	309	414	438	137
105°	824	830	723	527	485	782
115°	572	583	591	581	561	573
125°	273	288	293	293	290	256
135°	162	165	171	172	174	128
145°	117	120	123	124	124	75
155°	94	95	97	98	98	44
165°	81	82	82	82	82	23
175°	73	74	74	74	74	7
180°	73	73	73	73	73	



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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	14786.7
5°	14542.1	14598.7	14673.5	14753.4	14784.2
7.5°	14470.1	14549.7	14621.9	14678.7	14696.7
10°	14379.8	14475.2	14516.5	14511.3	14498.4
12.5°	14258.8	14359.4	14346.5	14287.1	14297.5
15°	14101.7	14207.2	14099.2	14119.6	14130.0
17.5°	13916.3	14019.3	13893.1	13934.2	13937.0
20°	13700.0	13777.2	13679.3	13712.8	13712.8
22.5°	13439.8	13493.8	13452.7	13475.8	13481.0
25°	13123.0	13143.4	13189.8	13210.5	13200.2
27.5°	12819.2	12793.3	12883.5	12932.4	12906.5
30°	12481.6	12440.4	12546.0	12625.8	12595.0
32.5°	12095.2	12069.5	12190.6	12285.8	12267.8
35°	11729.6	11660.0	11793.9	11938.1	11904.6
37.5°	11296.8	11255.6	11407.4	11559.7	11541.6
40°	10874.3	10804.8	10977.4	11157.7	11139.7
42.5°	10421.2	10338.5	10526.7	10743.2	10722.5
45°	9892.9	9874.9	10042.4	10279.3	10261.4
47.5°	9424.4	9334.2	9568.5	9797.8	9818.5
50°	8857.6	8824.3	9038.1	9316.2	9336.7
52.5°	8304.0	8280.8	8504.7	8785.5	8821.6
55°	7752.6	7693.4	7953.6	8218.9	8239.7
57.5°	7163.0	7101.1	7366.5	7655.0	7698.6
60°	6531.7	6472.6	6763.6	7031.6	5591.8
62.5°	5900.8	5859.6	6163.6	4365.8	3518.5
65°	5223.4	5223.4	5527.1	3170.6	3181.0
67.5°	4590.0	4548.7	4121.2	2848.6	2848.6
70°	3909.8	3925.3	2374.6	2496.0	2498.4
72.5°	3227.3	3284.0	2050.3	2148.0	2153.2
75°	2580.8	2629.8	1707.6	1797.8	1805.5
77.5°	1895.8	1457.8	1372.7	1442.6	1445.0
80°	1331.6	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°	4.0	171.8	275.0	330.7	331.5
92.5°	13.7	149.5	264.3	340.1	353.1
95°	50.4	164.4	309.2	413.6	437.9
97.5°	222.6	289.2	374.1	486.6	518.5
100°	451.4	517.3	462.2	532.9	542.9
102.5°	702.4	721.4	548.4	530.2	526.5
105°	823.6	830.2	723.4	527.0	484.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	668.7	683.5	678.3	652.0	607.9
115°	572.2	583.1	590.6	581.4	561.0
117.5°	478.5	479.3	482.6	481.8	482.6
120°	396.1	405.0	412.2	408.2	403.4
122.5°	332.2	341.9	346.8	345.2	340.3
125°	273.2	287.8	293.4	292.6	290.2
127.5°	231.2	241.7	249.8	250.6	249.8
130°	201.3	207.7	215.8	216.6	217.4
132.5°	178.6	184.3	190.0	193.2	192.4
135°	161.7	164.9	170.6	172.2	173.8
137.5°	147.9	150.4	155.2	157.6	157.6
140°	135.8	139.0	143.1	144.7	145.5
142.5°	125.3	128.5	131.8	133.4	133.4
145°	117.2	120.4	122.9	123.7	124.5
147.5°	109.9	113.2	114.8	116.4	116.4
150°	104.3	105.9	108.3	109.1	109.9
152.5°	98.6	100.2	102.7	103.5	103.5
155°	93.8	95.4	97.0	97.8	97.8
157.5°	89.7	91.3	93.0	93.8	93.8
160°	86.5	87.3	88.9	89.7	89.7
162.5°	83.3	84.1	84.9	85.7	85.7
165°	80.8	81.6	82.4	82.4	82.4
167.5°	78.4	78.4	79.2	80.0	80.0
170°	76.0	76.8	76.8	77.6	77.6
172.5°	74.4	75.2	75.2	75.2	76.0
175°	72.8	73.6	73.6	74.4	74.4
177.5°	72.8	72.8	72.8	72.8	72.8
180°	72.8	72.8	72.8	72.8	72.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	826.8	842.8	790.1	612.5	498.3
110°	766.5	781.4	752.6	680.3	582.8



(END OF REPORT)