

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: P828121

Luminaire Tested: **OHBL-48SE-NL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P828121
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-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

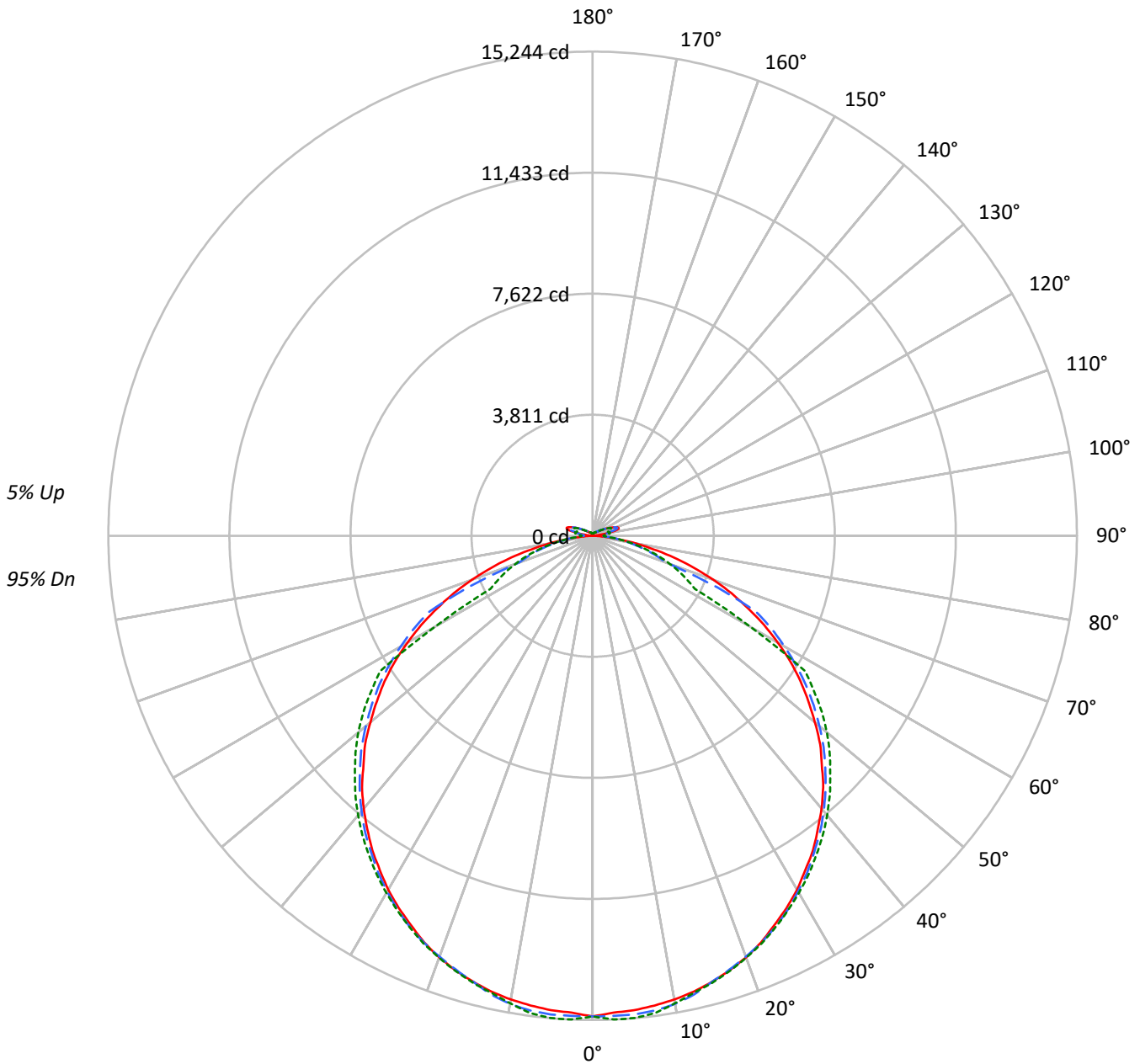
Lumens per Lamp: N/A
Luminaire Lumens: 44503.6 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 306.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	25846	25846	25846
5°	25569	25798	26071
10°	25442	25678	25802
15°	25300	25288	25577
20°	25123	25075	25450
25°	24802	24916	25333
30°	24528	24639	25223
35°	24197	24311	25124
40°	23798	24001	25050
45°	23241	23567	24894
50°	22645	23077	24795
55°	21921	22456	24374
60°	20837	21539	18830
65°	19282	20360	12542
70°	17280	10467	11991
75°	14345	9459	11180
80°	10075	7913	9788
85°	4043	6341	8469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1437.7	3.2
10°-20°	4116.4	9.2
20°-30°	6263.5	14.1
30°-40°	7615.5	17.1
40°-50°	8007.3	18.0
50°-60°	7311.7	16.4
60°-70°	4687.1	10.5
70°-80°	2214.1	5.0
80°-90°	619.1	1.4
90°-100°	355.8	0.8
100°-110°	715.3	1.6
110°-120°	587.7	1.3
120°-130°	276.0	0.6
130°-140°	138.1	0.3
140°-150°	80.1	0.2
150°-160°	46.7	0.1
160°-170°	24.2	0.1
170°-180°	7.4	0.0
0°-30°	11817.5	26.6
0°-40°	19433.0	43.7
0°-60°	34752.0	78.1
0°-90°	42272.4	95.0
90°-120°	1658.8	3.7
90°-150°	2153.0	4.8
90°-180°	2231.0	5.0
0°-180°	44503.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15133	15133	15133	15133	15133	
5°	14992	15050	15127	15210	15241	###
15°	14538	14647	14535	14556	14567	4104
25°	13529	13550	13598	13619	13608	6243
35°	12092	12021	12159	12307	12273	7557
45°	10199	10180	10353	10597	10579	7883
55°	7992	7931	8200	8473	8494	7128
65°	5385	5385	5698	3269	3279	5339
75°	2661	2711	1760	1853	1861	2805
85°	348	441	550	595	563	514
90°	4	177	284	341	342	18
95°	52	170	319	426	451	142
105°	849	856	746	543	500	806
115°	590	601	609	599	578	591
125°	282	297	302	302	299	264
135°	167	170	176	178	179	132
145°	121	124	127	128	128	77
155°	97	98	100	101	101	45
165°	83	84	85	85	85	24
175°	75	76	76	77	77	7
180°	75	75	75	75	75	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15132.7	15132.7	15132.7	15132.7	15132.7
2.5°	15026.4	15077.0	15132.7	15204.3	15244.0
5°	14991.8	15050.2	15127.3	15209.7	15241.4
7.5°	14917.6	14999.7	15074.2	15132.7	15151.2
10°	14824.6	14922.9	14965.4	14960.1	14946.8
12.5°	14699.8	14803.5	14790.2	14729.0	14739.7
15°	14537.8	14646.6	14535.2	14556.3	14567.0
17.5°	14346.7	14452.9	14322.8	14365.2	14368.0
20°	14123.7	14203.3	14102.3	14136.9	14136.9
22.5°	13855.5	13911.2	13868.8	13892.6	13897.9
25°	13528.8	13549.9	13597.8	13619.1	13608.4
27.5°	13215.7	13189.0	13282.0	13332.3	13305.7
30°	12867.7	12825.2	12934.0	13016.3	12984.6
32.5°	12469.2	12442.8	12567.7	12665.8	12647.3
35°	12092.3	12020.6	12158.7	12307.3	12272.8
37.5°	11646.2	11603.7	11760.2	11917.2	11898.6
40°	11210.7	11139.0	11316.9	11502.8	11484.2
42.5°	10743.5	10658.2	10852.3	11075.5	11054.1
45°	10198.9	10180.3	10353.0	10597.3	10578.8
47.5°	9715.9	9622.9	9864.4	10100.8	10122.2
50°	9131.5	9097.2	9317.6	9604.3	9625.4
52.5°	8560.8	8536.9	8767.8	9057.3	9094.4
55°	7992.3	7931.3	8199.6	8473.1	8494.5
57.5°	7384.6	7320.8	7594.3	7891.8	7936.8
60°	6733.8	6672.8	6972.8	7249.1	5764.8
62.5°	6083.2	6040.8	6354.3	4500.8	3627.3
65°	5384.9	5384.9	5698.1	3268.7	3279.3
67.5°	4731.9	4689.4	4248.7	2936.7	2936.7
70°	4030.8	4046.8	2448.0	2573.2	2575.7
72.5°	3327.1	3385.6	2113.8	2214.4	2219.8
75°	2660.6	2711.2	1760.4	1853.4	1861.3
77.5°	1954.4	1502.9	1415.2	1487.2	1489.7
80°	1372.8	947.9	1083.4	1152.3	1144.4
82.5°	801.8	663.8	793.9	844.5	841.7
85°	347.8	440.8	549.6	594.8	562.8
87.5°	111.3	273.5	342.4	369.1	366.3
90°	4.2	177.1	283.5	340.9	341.8
92.5°	14.2	154.2	272.5	350.7	364.0
95°	52.0	169.5	318.8	426.4	451.4
97.5°	229.5	298.2	385.7	501.7	534.5
100°	465.3	533.3	476.5	549.3	559.7
102.5°	724.1	743.8	565.3	546.6	542.8
105°	849.1	855.9	745.8	543.2	499.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	689.3	704.7	699.2	672.2	626.7
115°	589.9	601.1	608.9	599.4	578.3
117.5°	493.3	494.2	497.5	496.7	497.5
120°	408.3	417.5	425.0	420.8	415.8
122.5°	342.5	352.5	357.5	355.8	350.8
125°	281.7	296.7	302.5	301.7	299.2
127.5°	238.3	249.2	257.5	258.3	257.5
130°	207.5	214.2	222.5	223.3	224.2
132.5°	184.2	190.0	195.8	199.2	198.3
135°	166.7	170.0	175.8	177.5	179.2
137.5°	152.5	155.0	160.0	162.5	162.5
140°	140.0	143.3	147.5	149.2	150.0
142.5°	129.2	132.5	135.8	137.5	137.5
145°	120.8	124.2	126.7	127.5	128.3
147.5°	113.3	116.7	118.3	120.0	120.0
150°	107.5	109.2	111.7	112.5	113.3
152.5°	101.7	103.3	105.8	106.7	106.7
155°	96.7	98.3	100.0	100.8	100.8
157.5°	92.5	94.2	95.8	96.7	96.7
160°	89.2	90.0	91.7	92.5	92.5
162.5°	85.8	86.7	87.5	88.3	88.3
165°	83.3	84.2	85.0	85.0	85.0
167.5°	80.8	80.8	81.7	82.5	82.5
170°	78.3	79.2	79.2	80.0	80.0
172.5°	76.7	77.5	77.5	77.5	78.3
175°	75.0	75.8	75.8	76.7	76.7
177.5°	75.0	75.0	75.0	75.0	75.0
180°	75.0	75.0	75.0	75.0	75.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	852.4	868.9	814.6	631.4	513.7
110°	790.2	805.6	775.9	701.3	600.8



(END OF REPORT)