

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: P828115

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828115
REPORT IS A COMBINATION OF REPORTS P826255 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-48HE-NL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

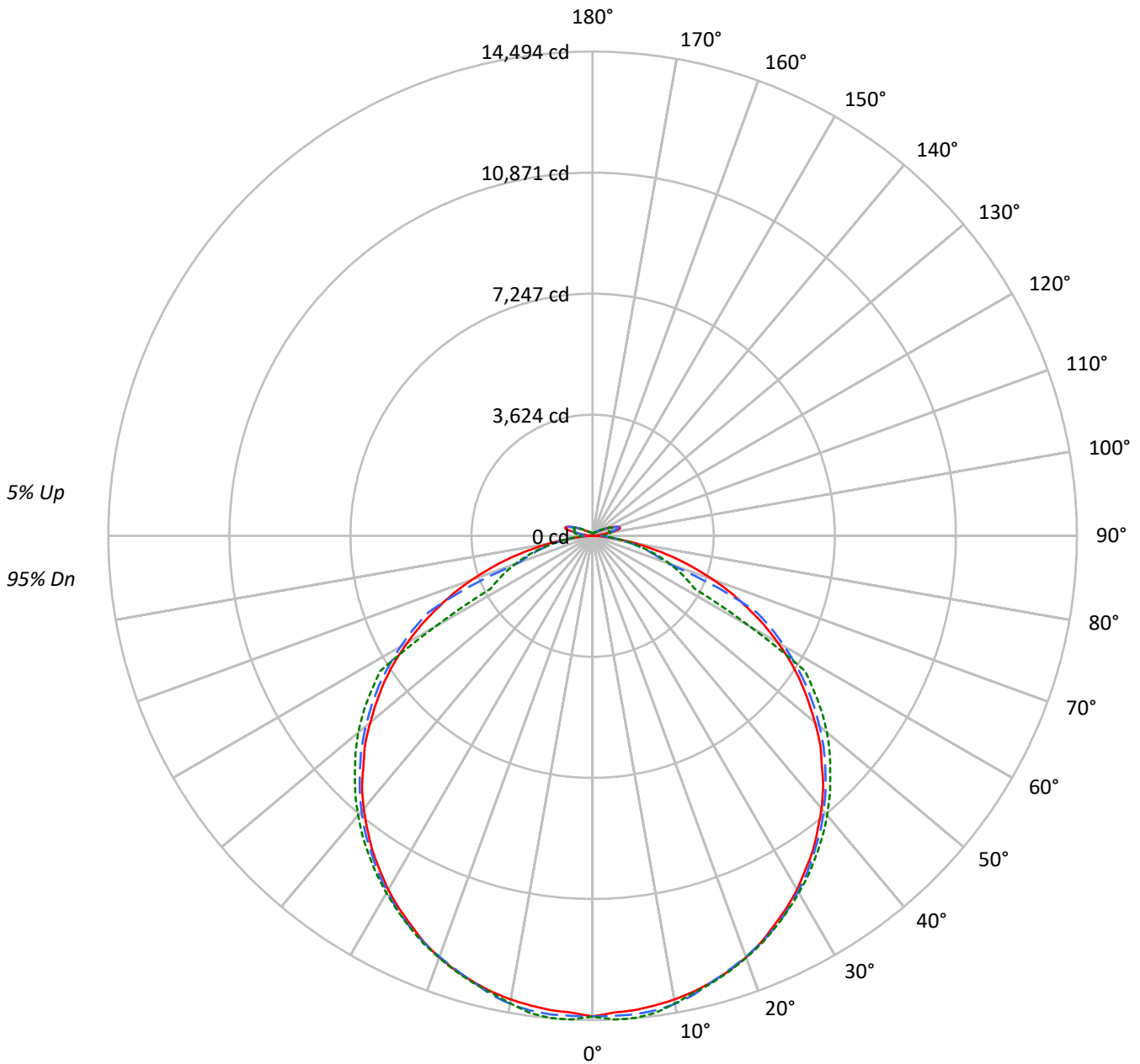
Lumens per Lamp: N/A
Luminaire Lumens: 42413.6 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 283.4
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

TEST NUMBER: P828115

CATALOG NUMBER: OHBL-48HE-NL-UNV-L935-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P828115

CATALOG NUMBER: OHBL-48HE-NL-UNV-L935-CD-UPL24

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95				
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	84	83	80				
2	99	91	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	67				
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	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	56	50	45	54	49	44	42				
6	70	57	48	42	68	56	47	41	53	46	40	51	45	40	49	43	39	37				
7	65	51	43	37	63	50	42	36	48	41	36	46	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°	22755	22755	22755
5°	22519	22718	22953
10°	22416	22619	22716
15°	22299	22281	22517
20°	22153	22100	22406
25°	21879	21966	22303
30°	21648	21730	22206
35°	21366	21448	22119
40°	21025	21183	22053
45°	20547	20809	21916
50°	20035	20388	21829
55°	19413	19852	21458
60°	18473	19056	16577
65°	17120	18032	11042
70°	15374	9284	10557
75°	12803	8408	9843
80°	9039	7061	8618
85°	3670	5703	7457



TEST NUMBER: P828115

CATALOG NUMBER: OHBL-48HE-NL-UNV-L935-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1366.9	3.2
10°-20°	3913.9	9.2
20°-30°	5955.4	14.0
30°-40°	7240.9	17.1
40°-50°	7613.4	18.0
50°-60°	6952.0	16.4
60°-70°	4456.6	10.5
70°-80°	2105.2	5.0
80°-90°	588.9	1.4
90°-100°	347.8	0.8
100°-110°	713.1	1.7
110°-120°	587.1	1.4
120°-130°	276.0	0.7
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°	11236.2	26.5
0°-40°	18477.1	43.6
0°-60°	33042.5	77.9
0°-90°	40193.2	94.8
90°-120°	1648.0	3.9
90°-150°	2142.2	5.1
90°-180°	2220.0	5.2
0°-180°	42413.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14388	14388	14388	14388	14388	
5°	14254	14310	14383	14462	14492	###
15°	13823	13926	13820	13840	13850	3902
25°	12863	12883	12929	12949	12939	5936
35°	11497	11429	11560	11702	11669	7185
45°	9697	9680	9844	10076	10058	7495
55°	7599	7541	7796	8056	8077	6777
65°	5120	5120	5418	3108	3118	5076
75°	2530	2578	1674	1762	1770	2667
85°	331	419	523	566	535	489
90°	4	170	271	327	328	18
95°	52	166	310	415	440	141
105°	848	854	744	541	498	806
115°	589	600	608	598	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	



TEST NUMBER: P828115

CATALOG NUMBER: OHBL-48HE-NL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14388.3	14388.3	14388.3	14388.3	14388.3
2.5°	14287.3	14335.3	14388.3	14456.4	14494.1
5°	14254.3	14309.9	14383.2	14461.5	14491.7
7.5°	14183.8	14261.8	14332.7	14388.3	14405.9
10°	14095.3	14188.8	14229.2	14224.2	14211.6
12.5°	13976.6	14075.2	14062.7	14004.4	14014.6
15°	13822.7	13926.1	13820.2	13840.3	13850.4
17.5°	13640.9	13741.9	13618.2	13658.5	13661.2
20°	13428.9	13504.6	13408.6	13441.5	13441.5
22.5°	13173.9	13226.8	13186.5	13209.2	13214.2
25°	12863.3	12883.4	12928.8	12949.2	12939.0
27.5°	12565.6	12540.2	12628.7	12676.5	12651.1
30°	12234.7	12194.2	12297.8	12376.1	12345.8
32.5°	11855.9	11830.8	11949.4	12042.8	12025.1
35°	11497.4	11429.2	11560.5	11701.9	11669.1
37.5°	11073.2	11032.9	11181.8	11330.9	11313.2
40°	10659.2	10591.1	10760.2	10936.9	10919.2
42.5°	10215.0	10134.0	10318.4	10530.7	10510.3
45°	9697.3	9679.6	9843.7	10076.0	10058.3
47.5°	9238.0	9149.5	9379.2	9603.9	9624.2
50°	8682.3	8649.7	8859.2	9131.9	9151.9
52.5°	8139.7	8117.0	8336.4	8611.8	8647.0
55°	7599.3	7541.2	7796.2	8056.2	8076.6
57.5°	7021.3	6960.7	7220.8	7503.5	7546.2
60°	6402.5	6344.5	6629.8	6892.5	5481.2
62.5°	5784.0	5743.7	6041.7	4279.4	3448.9
65°	5120.1	5120.1	5417.8	3107.8	3118.0
67.5°	4499.1	4458.8	4039.7	2792.2	2792.2
70°	3832.5	3847.8	2327.6	2446.6	2449.0
72.5°	3163.4	3219.0	2009.8	2105.5	2110.6
75°	2529.7	2577.8	1673.8	1762.2	1769.8
77.5°	1858.3	1429.0	1345.6	1414.0	1416.4
80°	1305.2	901.3	1030.2	1095.7	1088.2
82.5°	762.3	631.1	754.8	802.9	800.2
85°	330.7	419.1	522.6	565.6	535.2
87.5°	105.8	260.1	325.6	351.0	348.2
90°	4.2	169.8	271.4	326.8	327.8
92.5°	14.2	148.4	262.1	337.6	350.8
95°	51.7	165.8	310.2	414.8	439.8
97.5°	229.3	295.4	379.5	492.5	525.1
100°	465.1	531.1	472.5	542.8	553.0
102.5°	723.4	741.9	562.8	542.4	538.4
105°	848.4	854.5	743.7	541.2	497.9



TEST NUMBER: P828115

CATALOG NUMBER: OHBL-48HE-NL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	688.6	703.7	697.8	671.2	626.6
115°	589.2	600.2	607.7	598.5	578.2
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°	851.8	867.7	812.8	630.2	513.3
110°	789.4	804.4	774.3	700.3	600.8



(END OF REPORT)