

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: P828111

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828111
REPORT IS A COMBINATION OF REPORTS P826251 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-A-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

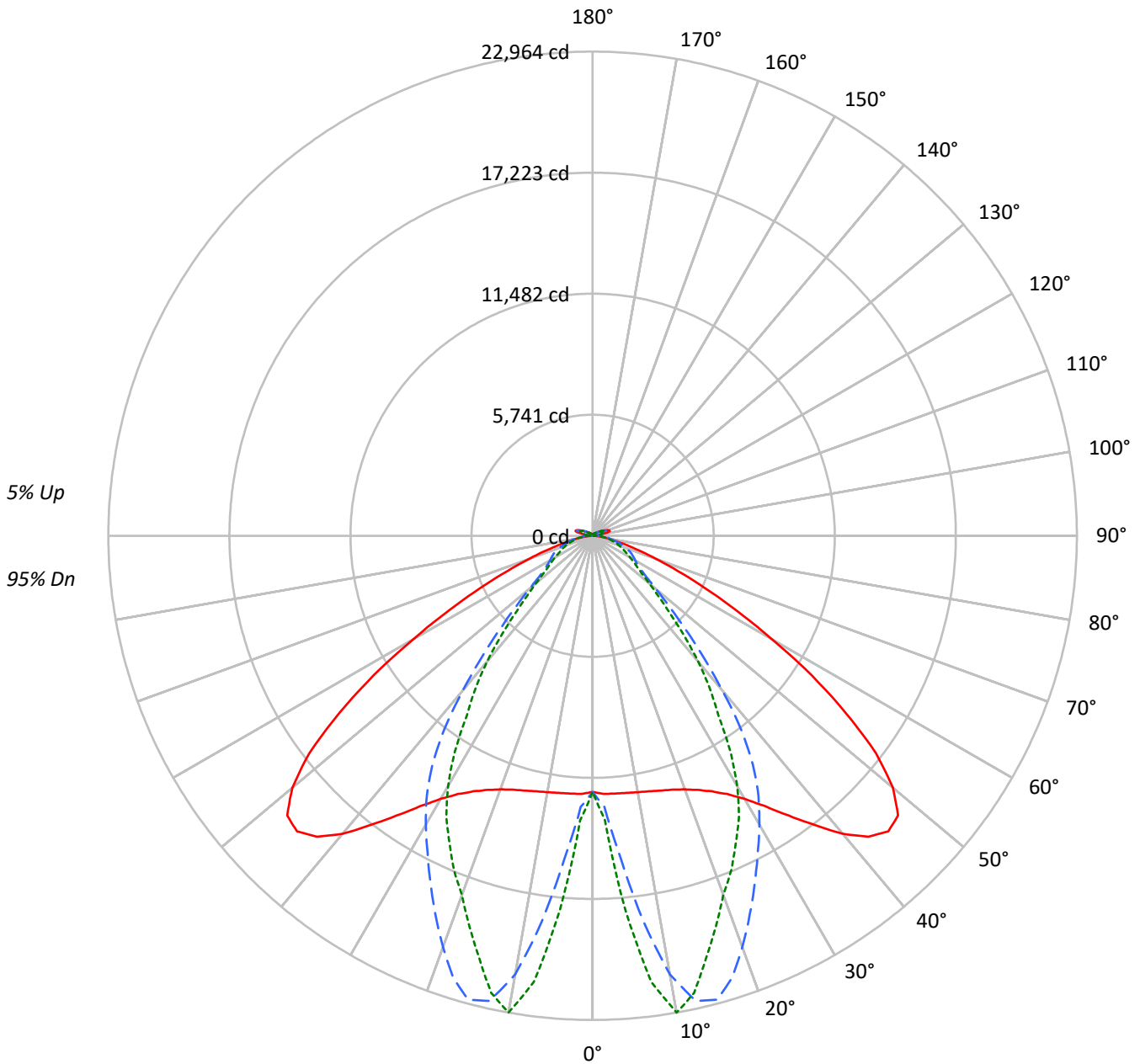
Lumens per Lamp: N/A
Luminaire Lumens: 41012.7 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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

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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	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	88	84	98	92	87	82	88	83	80	84	80	77	80	77	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	80	69	61	55	78	68	60	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	43	53	47	43	51	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	35	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19218	19218	19218
5°	19329	24182	28172
10°	19513	33355	36593
15°	19991	36352	33586
20°	20832	33746	30015
25°	22367	30364	27455
30°	24959	27355	24413
35°	29366	23956	19454
40°	35341	18255	15483
45°	40580	12446	11020
50°	41188	8544	8150
55°	35701	6730	6659
60°	26713	6305	5991
65°	18350	6335	5675
70°	11767	6123	5496
75°	7106	5684	5258
80°	4210	5018	5426
85°	2053	4348	5030



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1586.5	3.9
10°-20°	5599.4	13.7
20°-30°	8251.1	20.1
30°-40°	8670.6	21.1
40°-50°	6634.6	16.2
50°-60°	4006.2	9.8
60°-70°	2444.7	6.0
70°-80°	1334.4	3.3
80°-90°	473.5	1.2
90°-100°	193.2	0.5
100°-110°	670.8	1.6
110°-120°	575.4	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°	15437.0	37.6
0°-40°	24107.6	58.8
0°-60°	34748.4	84.7
0°-90°	39001.0	95.1
90°-120°	1439.3	3.5
90°-150°	1933.5	4.7
90°-180°	2012.0	4.9
0°-180°	41012.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12152	12152	12152	12152	12152	
5°	12274	13168	15362	17153	17814	###
15°	12513	19490	22778	21255	20756	3558
25°	13372	22620	18185	16464	16057	6249
35°	16197	18114	13248	11033	10388	10275
45°	19824	10336	6103	5370	5144	14979
55°	14661	3505	2778	2575	2567	12955
65°	5878	2219	2044	1749	1660	6022
75°	1565	1380	1266	1044	1002	1801
85°	233	428	504	460	417	288
90°	4	28	39	52	58	16
95°	44	92	143	190	215	137
105°	836	827	703	501	460	793
115°	577	582	582	581	576	582
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°	12152.2	12152.2	12152.2	12152.2	12152.2
2.5°	12251.7	12376.8	12869.8	13381.4	13506.0
5°	12274.1	13168.3	15361.7	17152.7	17814.5
7.5°	12300.2	14450.8	18449.2	20642.0	21343.9
10°	12349.7	16072.4	21124.5	22698.8	22964.0
12.5°	12411.2	17790.5	22596.7	22539.3	22204.8
15°	12513.2	19489.8	22778.0	21255.3	20755.6
17.5°	12620.7	20927.6	21987.0	19857.8	19422.6
20°	12795.2	21994.8	20756.7	18615.4	18120.9
22.5°	13046.9	22581.6	19466.4	17491.9	17169.3
25°	13371.6	22619.6	18185.0	16463.8	16057.3
27.5°	13806.7	22094.8	16956.8	15456.5	15027.1
30°	14398.7	21090.2	15815.5	14241.8	13709.2
32.5°	15202.7	19644.1	14638.8	12775.4	12178.2
35°	16197.0	18114.1	13248.1	11032.8	10387.7
37.5°	17281.9	16415.3	11560.2	9489.8	9114.1
40°	18449.2	14664.9	9559.7	8045.8	7777.0
42.5°	19360.1	12761.8	7701.4	6686.3	6400.2
45°	19824.4	10336.1	6102.7	5370.0	5144.3
47.5°	19643.6	8023.4	4837.9	4266.8	4199.1
50°	18588.3	5924.4	3872.8	3514.8	3486.8
52.5°	16938.5	4415.8	3199.1	2977.6	2929.2
55°	14660.8	3504.9	2778.0	2574.8	2567.0
57.5°	12309.0	2977.6	2521.7	2364.2	2309.5
60°	9800.4	2655.0	2327.2	2149.6	2038.6
62.5°	7682.2	2429.4	2184.5	1943.2	1839.5
65°	5877.5	2218.8	2043.8	1748.8	1659.8
67.5°	4381.4	2018.3	1871.8	1544.6	1492.4
70°	3192.2	1812.4	1675.8	1373.7	1332.5
72.5°	2275.2	1607.1	1479.9	1213.2	1167.8
75°	1564.9	1379.9	1265.8	1044.3	1002.1
77.5°	1055.8	1148.0	1054.8	891.6	873.9
80°	705.1	910.3	853.1	755.6	744.7
82.5°	427.8	660.8	673.2	614.4	584.7
85°	232.9	427.8	504.4	459.6	416.9
87.5°	91.2	237.1	347.6	312.2	293.9
90°	4.2	28.3	39.2	51.7	57.5
92.5°	14.2	37.5	60.0	85.0	95.8
95°	44.2	92.5	143.3	190.0	215.0
97.5°	224.2	242.5	260.8	315.8	343.3
100°	460.0	488.3	394.2	416.7	424.2
102.5°	710.8	706.7	515.0	461.7	455.0
105°	835.8	826.7	703.3	500.8	460.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	673.3	683.3	670.0	650.8	624.2
115°	576.7	582.5	582.5	580.8	575.8
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°	839.2	842.5	777.5	607.5	505.8
110°	774.2	781.7	744.2	680.0	598.3



(END OF REPORT)