

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: P827215

Luminaire Tested: **OHBL-48HE-NL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827215
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-L840-CD-UPL24
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

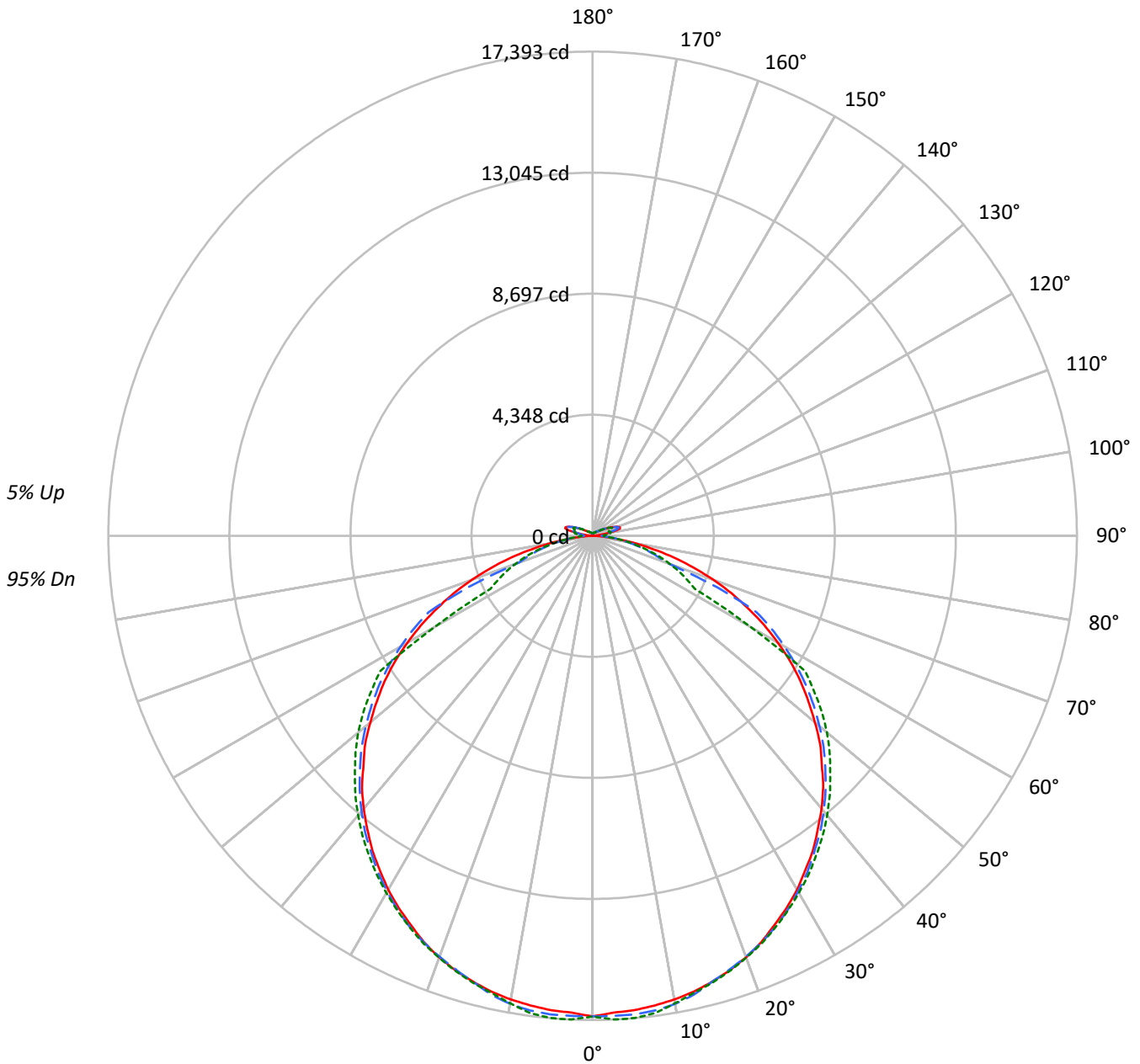
Lumens per Lamp: N/A
Luminaire Lumens: 50896.3 lumens
Efficiency: N/A
Efficacy: 179.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

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

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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	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°	27306	27306	27306
5°	27023	27262	27543
10°	26899	27143	27259
15°	26759	26737	27021
20°	26583	26520	26887
25°	26255	26360	26764
30°	25977	26076	26647
35°	25639	25738	26543
40°	25231	25420	26464
45°	24656	24971	26300
50°	24042	24465	26195
55°	23295	23822	25750
60°	22168	22867	19893
65°	20544	21638	13250
70°	18449	11140	12668
75°	15363	10090	11811
80°	10847	8472	10341
85°	4404	6843	8948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1640.3	3.2
10°-20°	4696.7	9.2
20°-30°	7146.4	14.0
30°-40°	8689.0	17.1
40°-50°	9136.1	18.0
50°-60°	8342.4	16.4
60°-70°	5347.9	10.5
70°-80°	2526.3	5.0
80°-90°	706.7	1.4
90°-100°	417.4	0.8
100°-110°	855.7	1.7
110°-120°	704.6	1.4
120°-130°	331.2	0.7
130°-140°	165.7	0.3
140°-150°	96.1	0.2
150°-160°	56.0	0.1
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	13483.4	26.5
0°-40°	22172.5	43.6
0°-60°	39651.0	77.9
0°-90°	48231.8	94.8
90°-120°	1977.6	3.9
90°-150°	2570.7	5.1
90°-180°	2665.0	5.2
0°-180°	50896.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17266	17266	17266	17266	17266	
5°	17105	17172	17260	17354	17390	###
15°	16587	16711	16584	16608	16620	4683
25°	15436	15460	15515	15539	15527	7123
35°	13797	13715	13873	14042	14003	8622
45°	11637	11616	11812	12091	12070	8994
55°	9119	9050	9356	9668	9692	8133
65°	6144	6144	6501	3729	3742	6091
75°	3036	3093	2009	2115	2124	3200
85°	397	503	627	679	642	586
90°	5	204	326	392	393	21
95°	62	199	372	498	528	170
105°	1018	1025	892	649	598	967
115°	707	720	729	718	694	709
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17265.9	17265.9	17265.9	17265.9	17265.9
2.5°	17144.7	17202.4	17265.9	17347.7	17392.9
5°	17105.2	17171.9	17259.8	17353.8	17390.0
7.5°	17020.5	17114.2	17199.2	17265.9	17287.1
10°	16914.4	17026.6	17075.1	17069.0	17053.9
12.5°	16771.9	16890.3	16875.2	16805.3	16817.5
15°	16587.2	16711.3	16584.3	16608.4	16620.5
17.5°	16369.1	16490.3	16341.8	16390.2	16393.5
20°	16114.7	16205.5	16090.3	16129.8	16129.8
22.5°	15808.7	15872.2	15823.8	15851.1	15857.1
25°	15436.0	15460.1	15514.6	15539.0	15526.8
27.5°	15078.7	15048.2	15154.4	15211.8	15181.3
30°	14681.6	14633.1	14757.3	14851.3	14815.0
32.5°	14227.1	14196.9	14339.3	14451.3	14430.1
35°	13796.9	13715.1	13872.6	14042.3	14002.9
37.5°	13287.9	13239.5	13418.1	13597.1	13575.9
40°	12791.1	12709.3	12912.3	13124.3	13103.1
42.5°	12258.0	12160.8	12382.1	12636.8	12612.4
45°	11636.7	11615.5	11812.4	12091.2	12070.0
47.5°	11085.6	10979.4	11255.0	11524.7	11549.1
50°	10418.8	10379.6	10631.1	10958.3	10982.3
52.5°	9767.6	9740.4	10003.7	10334.1	10376.4
55°	9119.1	9049.5	9355.5	9667.5	9691.9
57.5°	8425.6	8352.8	8664.9	9004.2	9055.5
60°	7683.0	7613.4	7955.7	8271.0	6577.4
62.5°	6940.8	6892.4	7250.0	5135.3	4138.7
65°	6144.1	6144.1	6501.4	3729.4	3741.6
67.5°	5398.9	5350.5	4847.6	3350.6	3350.6
70°	4599.0	4617.3	2793.1	2935.9	2938.8
72.5°	3796.1	3862.8	2411.8	2526.6	2532.7
75°	3035.6	3093.4	2008.6	2114.7	2123.7
77.5°	2229.9	1714.8	1614.7	1696.8	1699.7
80°	1566.2	1081.6	1236.2	1314.8	1305.8
82.5°	914.8	757.3	905.8	963.5	960.3
85°	396.8	502.9	627.1	678.7	642.2
87.5°	127.0	312.1	390.7	421.2	417.9
90°	5.0	203.7	325.7	392.1	393.3
92.5°	17.0	178.1	314.5	405.1	421.0
95°	62.0	198.9	372.2	497.8	527.8
97.5°	275.1	354.5	455.4	591.0	630.1
100°	558.1	637.3	567.0	651.4	663.6
102.5°	868.1	890.3	675.4	650.9	646.1
105°	1018.1	1025.4	892.4	649.4	597.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	826.3	844.4	837.4	805.4	751.9
115°	707.1	720.2	729.2	718.2	693.9
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1022.1	1041.2	975.3	756.3	616.0
110°	947.3	965.3	929.2	840.4	720.9



(END OF REPORT)