

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: P830505

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
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
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

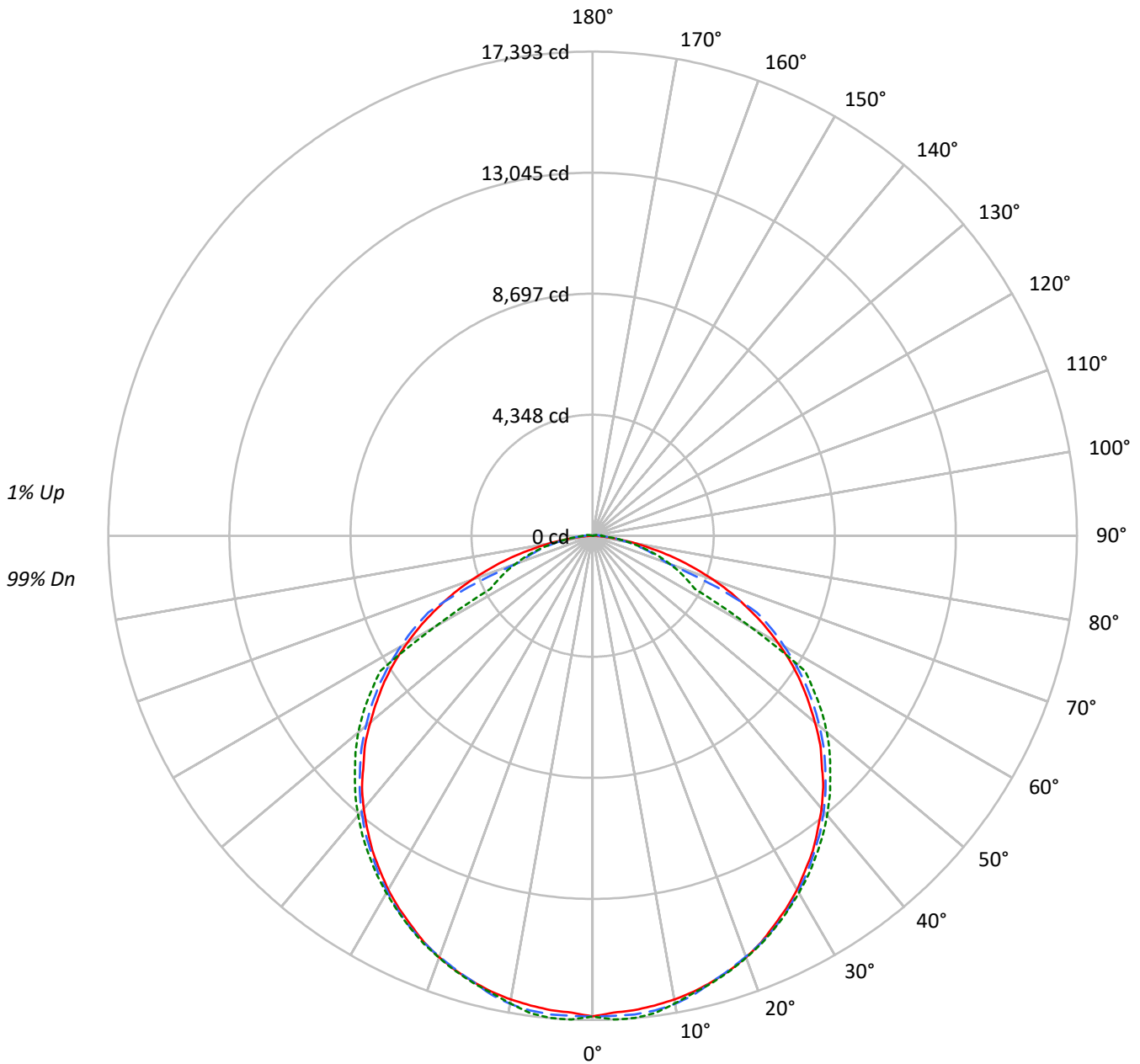
Lumens per Lamp: N/A
Luminaire Lumens: 48476.1 lumens
Efficiency: N/A
Efficacy: 182.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 266
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27306	27306	27306
5°	27155	27400	27607
10°	27162	27420	27386
15°	27158	27153	27212
20°	27121	27080	27146
25°	26935	27072	27094
30°	26811	26949	27054
35°	26637	26783	27034
40°	26407	26657	27051
45°	26026	26419	26995
50°	25634	26156	27020
55°	25143	25795	26723
60°	24301	25163	20804
65°	22992	24329	14001
70°	21265	12915	13589
75°	18549	12273	12977
80°	14264	11259	11892
85°	7200	11379	11653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1640.3	3.4
10°-20°	4696.7	9.7
20°-30°	7146.4	14.7
30°-40°	8689.0	17.9
40°-50°	9136.1	18.8
50°-60°	8342.4	17.2
60°-70°	5347.9	11.0
70°-80°	2526.3	5.2
80°-90°	700.5	1.4
90°-100°	185.5	0.4
100°-110°	50.8	0.1
110°-120°	14.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13483.4	27.8
0°-40°	22172.5	45.7
0°-60°	39651.0	81.8
0°-90°	48225.6	99.5
90°-120°	250.4	0.5
90°-150°	250.4	0.5
90°-180°	250.0	0.5
0°-180°	48476.1	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°	0	170	279	330	324	17
95°	9	88	200	270	270	5
105°	15	33	48	48	46	15
115°	15	21	30	21	3	11
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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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°	0.0	169.7	278.7	330.1	324.3
92.5°	0.0	133.1	242.5	303.1	306.0
95°	9.0	87.9	200.2	269.8	269.8
97.5°	6.1	63.5	142.4	212.0	218.1
100°	6.1	51.3	94.0	151.4	154.6
102.5°	15.1	42.3	57.4	96.9	100.1
105°	15.1	33.4	48.4	48.4	45.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.3	24.4	33.4	24.4	2.9
115°	15.1	21.2	30.2	21.2	2.9
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	15.1	30.2	42.3	27.3	9.0
110°	18.3	27.3	36.2	24.4	2.9



(END OF REPORT)