

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: P830504

Luminaire Tested: **OHBL-48HE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830504
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-L835-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

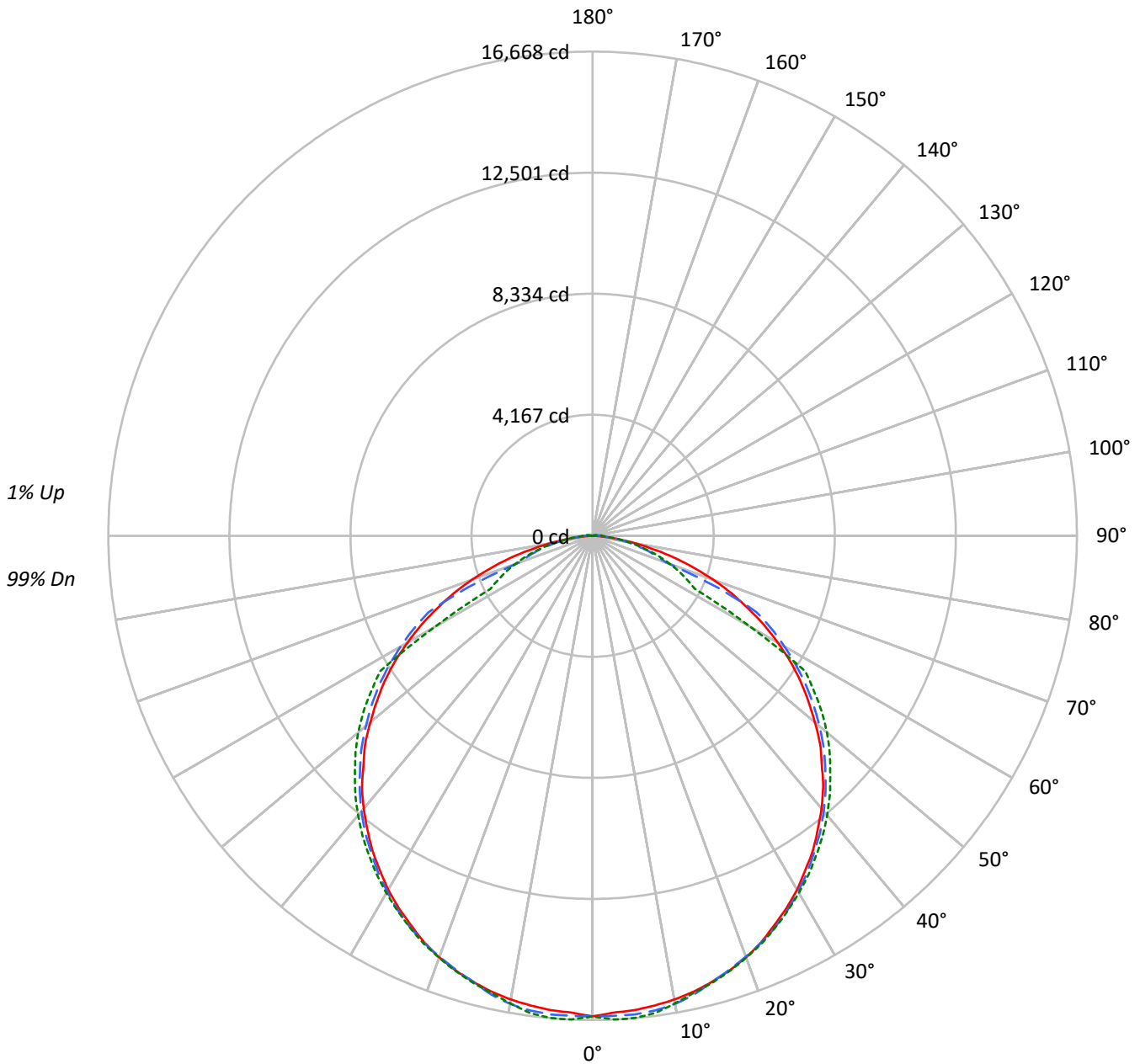
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46456.0 lumens
Efficiency: N/A
Efficacy: 174.6 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				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26168	26168	26168
5°	26023	26258	26457
10°	26030	26278	26245
15°	26026	26021	26078
20°	25990	25951	26015
25°	25813	25944	25965
30°	25693	25826	25927
35°	25527	25667	25908
40°	25306	25546	25924
45°	24941	25318	25870
50°	24565	25066	25894
55°	24096	24720	25609
60°	23288	24115	19937
65°	22033	23315	13418
70°	20379	12377	13022
75°	17776	11762	12436
80°	13670	10789	11397
85°	6899	10904	11167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1572.0	3.4
10°-20°	4501.0	9.7
20°-30°	6848.6	14.7
30°-40°	8327.0	17.9
40°-50°	8755.4	18.8
50°-60°	7994.7	17.2
60°-70°	5125.0	11.0
70°-80°	2421.0	5.2
80°-90°	671.3	1.4
90°-100°	177.8	0.4
100°-110°	48.7	0.1
110°-120°	13.5	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°	12921.6	27.8
0°-40°	21248.6	45.7
0°-60°	37998.7	81.8
0°-90°	46216.0	99.5
90°-120°	240.0	0.5
90°-150°	240.0	0.5
90°-180°	240.0	0.5
0°-180°	46456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16546	16546	16546	16546	16546	
5°	16392	16456	16541	16631	16665	###
15°	15896	16015	15893	15916	15928	4488
25°	14793	14816	14868	14892	14880	6826
35°	13222	13144	13295	13457	13419	8263
45°	11152	11132	11320	11587	11567	8620
55°	8739	8672	8966	9265	9288	7794
65°	5888	5888	6230	3574	3586	5837
75°	2909	2964	1925	2027	2035	3067
85°	380	482	601	650	615	562
90°	0	163	267	316	311	17
95°	9	84	192	258	258	5
105°	14	32	46	46	44	14
115°	14	20	29	20	3	10
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°	16546.4	16546.4	16546.4	16546.4	16546.4
2.5°	16430.2	16485.6	16546.4	16624.8	16668.2
5°	16392.4	16456.4	16540.6	16630.7	16665.4
7.5°	16311.3	16401.0	16482.5	16546.4	16566.7
10°	16209.5	16317.1	16363.5	16357.7	16343.2
12.5°	16073.1	16186.5	16172.0	16105.0	16116.7
15°	15896.0	16015.0	15893.2	15916.3	15928.0
17.5°	15687.0	15803.2	15660.8	15707.3	15710.3
20°	15443.2	15530.2	15419.9	15457.7	15457.7
22.5°	15150.0	15210.8	15164.4	15190.5	15196.4
25°	14792.8	14815.8	14868.1	14891.5	14879.8
27.5°	14450.3	14421.1	14522.9	14577.9	14548.7
30°	14069.8	14023.4	14142.3	14232.4	14197.7
32.5°	13634.2	13605.3	13741.8	13849.1	13828.8
35°	13222.0	13143.6	13294.6	13457.2	13419.4
37.5°	12734.2	12687.8	12859.0	13030.5	13010.2
40°	12258.1	12179.7	12374.2	12577.4	12557.1
42.5°	11747.2	11654.0	11866.1	12110.2	12086.8
45°	11151.8	11131.5	11320.2	11587.3	11567.0
47.5°	10623.7	10521.9	10786.0	11044.5	11067.8
50°	9984.6	9947.1	10188.1	10501.6	10524.7
52.5°	9360.6	9334.5	9586.8	9903.5	9944.0
55°	8739.1	8672.4	8965.6	9264.7	9288.1
57.5°	8074.5	8004.7	8303.8	8629.0	8678.2
60°	7362.9	7296.2	7624.2	7926.3	6303.3
62.5°	6651.6	6605.2	6947.9	4921.3	3966.2
65°	5888.0	5888.0	6230.5	3574.0	3585.7
67.5°	5174.0	5127.6	4645.6	3211.0	3211.0
70°	4407.3	4424.9	2676.7	2813.5	2816.3
72.5°	3637.9	3701.9	2311.3	2421.3	2427.1
75°	2909.1	2964.5	1924.9	2026.6	2035.2
77.5°	2137.0	1643.3	1547.4	1626.1	1628.9
80°	1501.0	1036.5	1184.7	1260.0	1251.4
82.5°	876.7	725.7	868.1	923.4	920.3
85°	380.2	482.0	600.9	650.4	615.4
87.5°	121.7	299.1	374.4	403.6	400.5
90°	0.0	162.6	267.1	316.3	310.8
92.5°	0.0	127.6	232.4	290.5	293.2
95°	8.6	84.2	191.8	258.5	258.5
97.5°	5.8	60.9	136.5	203.2	209.0
100°	5.8	49.2	90.1	145.1	148.2
102.5°	14.4	40.6	55.0	92.8	95.9
105°	14.4	32.0	46.4	46.4	43.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.5	23.4	32.0	23.4	2.8
115°	14.4	20.3	28.9	20.3	2.8
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°	14.4	28.9	40.6	26.1	8.6
110°	17.5	26.1	34.7	23.4	2.8



(END OF REPORT)