

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: P830483

Luminaire Tested: **OHBL-48HE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-MFL-UNV-L930-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

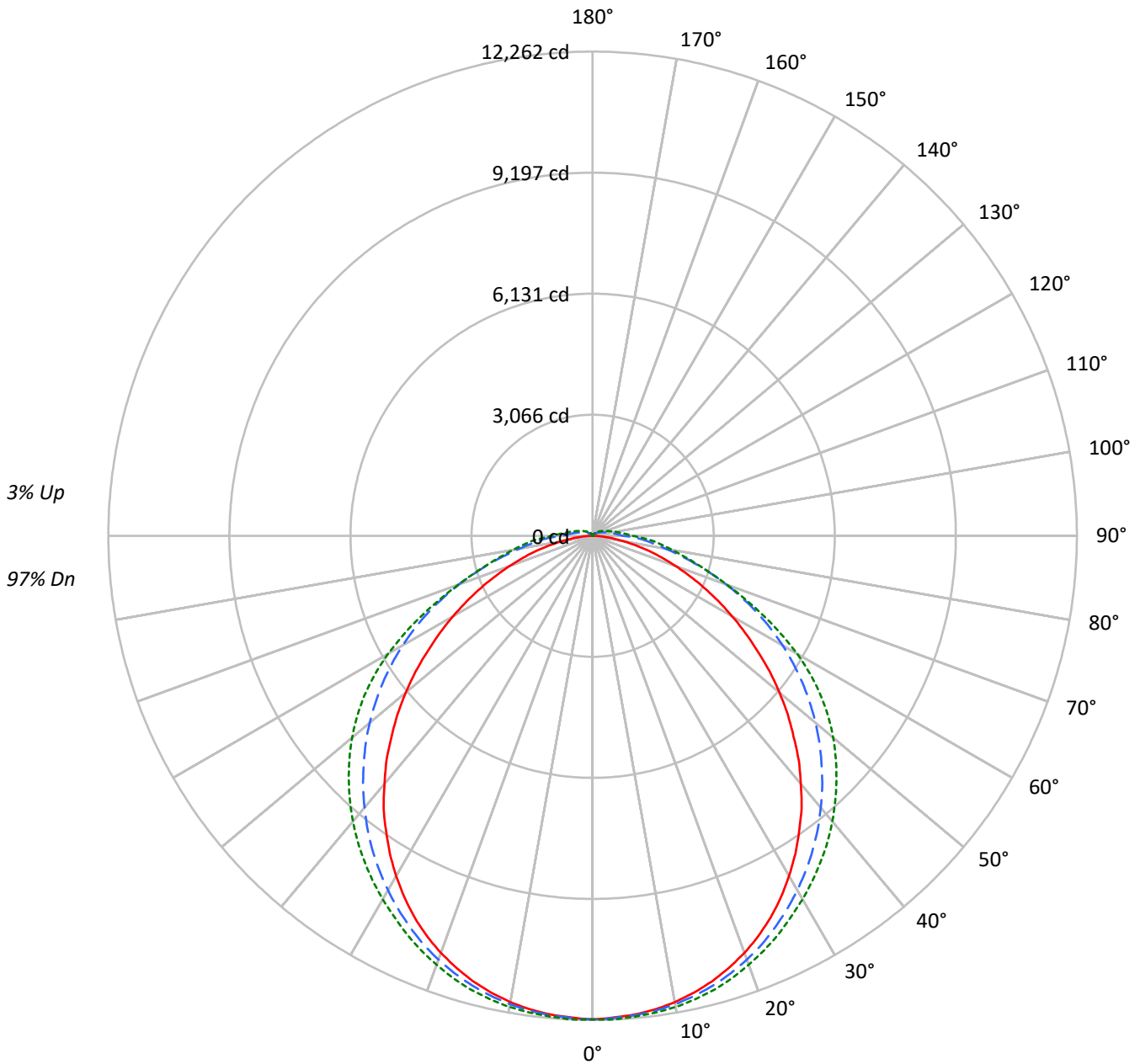
Lumens per Lamp: N/A
Luminaire Lumens: 36662.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
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				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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19373	19373	19373
5°	19249	19190	19248
10°	19114	19020	19147
15°	18900	18818	19015
20°	18617	18570	18821
25°	18239	18261	18625
30°	17715	17926	18428
35°	17080	17570	18258
40°	16318	17158	18091
45°	15420	16710	17877
50°	14436	16258	17617
55°	13228	15704	17178
60°	11990	15051	16303
65°	10639	14218	14864
70°	9175	13155	13305
75°	7692	11928	12252
80°	5832	11040	12155
85°	3690	11475	13583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.7	3.2
10°-20°	3330.0	9.1
20°-30°	5036.1	13.7
30°-40°	6045.8	16.5
40°-50°	6244.4	17.0
50°-60°	5618.0	15.3
60°-70°	4231.9	11.5
70°-80°	2555.4	7.0
80°-90°	1249.8	3.4
90°-100°	526.1	1.4
100°-110°	300.3	0.8
110°-120°	176.3	0.5
120°-130°	99.7	0.3
130°-140°	52.5	0.1
140°-150°	25.5	0.1
150°-160°	9.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	9526.8	26.0
0°-40°	15572.7	42.5
0°-60°	27435.0	74.8
0°-90°	35472.2	96.8
90°-120°	1002.6	2.7
90°-150°	1180.4	3.2
90°-180°	1190.0	3.2
0°-180°	36662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12250	12250	12250	12250	12250	
5°	12172	12205	12190	12238	12223	###
15°	11680	11737	11791	11890	11902	3293
25°	10667	10784	10937	11108	11135	4907
35°	9120	9333	9717	10010	10070	5701
45°	7198	7561	8194	8640	8733	5557
55°	5100	5627	6482	6970	7054	4572
65°	3112	3748	4587	4815	4761	3092
75°	1466	2105	2656	2725	2698	1564
85°	306	806	1331	1514	1541	353
90°	0	315	762	959	998	19
95°	15	213	570	726	752	13
105°	21	123	330	432	450	21
115°	24	69	204	273	285	25
125°	24	33	123	177	186	22
135°	21	27	63	108	120	17
145°	30	27	30	54	63	18
155°	30	33	30	27	30	9
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12249.9	12249.9	12249.9	12249.9	12249.9
2.5°	12214.0	12243.9	12226.0	12264.9	12261.9
5°	12172.0	12205.0	12190.0	12237.9	12223.0
7.5°	12100.0	12136.0	12133.0	12187.0	12181.0
10°	11995.1	12034.1	12046.1	12118.0	12118.0
12.5°	11851.2	11902.2	11932.1	12019.1	12022.1
15°	11680.3	11737.3	11791.2	11890.2	11902.2
17.5°	11473.5	11545.4	11620.4	11734.3	11749.3
20°	11239.6	11320.6	11422.5	11542.4	11560.4
22.5°	10969.8	11065.7	11197.6	11338.5	11359.5
25°	10667.0	10783.9	10936.8	11107.7	11134.7
27.5°	10322.2	10457.1	10664.0	10855.9	10879.8
30°	9947.5	10106.4	10364.2	10592.0	10631.0
32.5°	9551.7	9734.6	10052.4	10307.2	10361.2
35°	9120.0	9332.9	9716.6	10010.4	10070.4
37.5°	8694.3	8928.1	9362.8	9698.6	9770.6
40°	8196.6	8487.4	8985.1	9356.8	9443.8
42.5°	7728.9	8043.7	8607.3	9012.1	9096.0
45°	7198.3	7561.0	8193.6	8640.3	8733.3
47.5°	6700.6	7093.3	7794.9	8256.6	8352.5
50°	6175.9	6607.7	7369.2	7851.8	7950.8
52.5°	5651.3	6116.0	6928.4	7429.1	7522.1
55°	5099.6	5627.3	6481.7	6970.4	7054.4
57.5°	4587.0	5144.6	6023.0	6487.7	6538.7
60°	4080.3	4658.9	5555.3	5963.1	5981.1
62.5°	3585.6	4194.2	5075.7	5399.4	5375.5
65°	3112.0	3747.5	4587.0	4814.8	4760.9
67.5°	2656.3	3312.8	4086.3	4233.2	4161.3
70°	2224.5	2890.1	3600.6	3675.6	3609.6
72.5°	1843.8	2488.4	3109.0	3171.9	3123.9
75°	1466.0	2104.6	2656.3	2725.2	2698.2
77.5°	1112.3	1732.9	2239.5	2329.5	2335.5
80°	800.5	1394.1	1876.8	2017.7	2035.7
82.5°	527.7	1082.3	1574.0	1753.8	1780.8
85°	305.8	806.5	1331.1	1514.0	1541.0
87.5°	131.9	581.6	1070.3	1235.2	1268.2
90°	0.0	314.8	761.5	959.4	998.3
92.5°	9.0	260.8	653.6	833.5	866.4
95°	15.0	212.9	569.6	725.5	752.5
97.5°	18.0	179.9	494.7	632.6	659.6
100°	18.0	155.9	428.7	554.6	578.6
102.5°	18.0	137.9	374.8	485.7	506.7
105°	21.0	122.9	329.8	431.7	449.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.0	80.9	227.9	305.8	317.8
115°	24.0	69.0	203.9	272.8	284.8
117.5°	27.0	60.0	179.9	245.8	254.8
120°	27.0	51.0	158.9	218.9	230.8
122.5°	27.0	42.0	140.9	197.9	206.9
125°	24.0	33.0	122.9	176.9	185.9
127.5°	21.0	27.0	104.9	158.9	167.9
130°	21.0	24.0	89.9	140.9	149.9
132.5°	21.0	27.0	75.0	122.9	134.9
135°	21.0	27.0	63.0	107.9	119.9
137.5°	21.0	27.0	51.0	92.9	104.9
140°	24.0	27.0	42.0	77.9	89.9
142.5°	27.0	27.0	33.0	66.0	75.0
145°	30.0	27.0	30.0	54.0	63.0
147.5°	30.0	30.0	30.0	42.0	51.0
150°	30.0	33.0	30.0	33.0	42.0
152.5°	30.0	33.0	30.0	27.0	33.0
155°	30.0	33.0	30.0	27.0	30.0
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°	21.0	107.9	290.8	383.7	398.7
110°	21.0	95.9	257.8	341.8	356.8



(END OF REPORT)