

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: P830551

Luminaire Tested: **OHBL-48SE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830551
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-48SE-MFL-UNV-L830-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

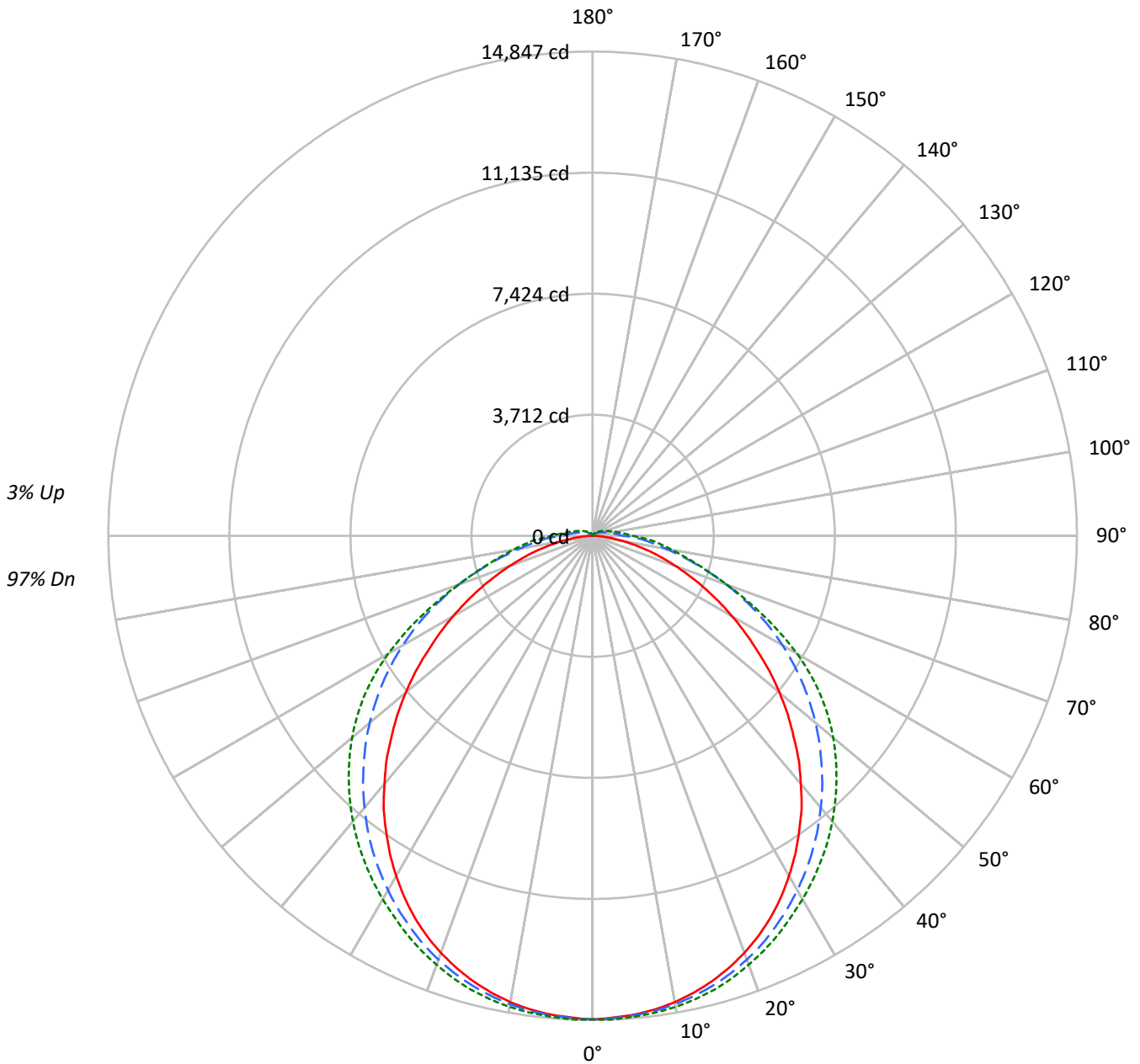
Lumens per Lamp: N/A
Luminaire Lumens: 44390.0 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
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	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25333	25333	25333
5°	25171	25082	25154
10°	24995	24849	25006
15°	24715	24574	24817
20°	24345	24239	24548
25°	23850	23824	24275
30°	23164	23374	24000
35°	22335	22897	23759
40°	21338	22346	23520
45°	20163	21747	23219
50°	18878	21141	22855
55°	17298	20401	22255
60°	15679	19530	21085
65°	13912	18421	19182
70°	11997	17009	17121
75°	10059	15377	15699
80°	7626	14165	15469
85°	4825	14591	17060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1405.4	3.2
10°-20°	4031.9	9.1
20°-30°	6097.6	13.7
30°-40°	7320.3	16.5
40°-50°	7560.6	17.0
50°-60°	6802.2	15.3
60°-70°	5124.0	11.5
70°-80°	3094.0	7.0
80°-90°	1513.2	3.4
90°-100°	636.9	1.4
100°-110°	363.6	0.8
110°-120°	213.4	0.5
120°-130°	120.7	0.3
130°-140°	63.6	0.1
140°-150°	30.9	0.1
150°-160°	11.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11535.0	26.0
0°-40°	18855.2	42.5
0°-60°	33218.1	74.8
0°-90°	42949.4	96.8
90°-120°	1214.0	2.7
90°-150°	1429.1	3.2
90°-180°	1441.0	3.2
0°-180°	44390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14832	14832	14832	14832	14832	
5°	14738	14778	14760	14818	14799	###
15°	14142	14211	14277	14396	14411	3987
25°	12916	13057	13242	13449	13482	5941
35°	11042	11300	11765	12120	12193	6903
45°	8716	9155	9921	10462	10574	6729
55°	6175	6814	7848	8440	8541	5536
65°	3768	4538	5554	5830	5764	3743
75°	1775	2548	3216	3300	3267	1894
85°	370	976	1612	1833	1866	428
90°	0	381	922	1162	1209	23
95°	18	258	690	878	911	15
105°	25	149	399	523	544	25
115°	29	84	247	330	345	30
125°	29	40	149	214	225	26
135°	25	33	76	131	145	20
145°	36	33	36	65	76	22
155°	36	40	36	33	36	11
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°	14832.1	14832.1	14832.1	<i>14832.1</i>	14832.1
2.5°	<i>14788.6</i>	<i>14824.9</i>	<i>14803.1</i>	<i>14850.3</i>	<i>14846.6</i>
5°	14737.7	14777.7	14759.5	<i>14817.6</i>	14799.4
7.5°	14650.6	14694.2	14690.5	<i>14755.9</i>	14748.6
10°	14523.6	14570.8	14585.3	<i>14672.4</i>	14672.4
12.5°	14349.3	14411.0	14447.3	<i>14552.6</i>	14556.2
15°	14142.4	14211.4	14276.7	<i>14396.5</i>	14411.0
17.5°	13891.9	13979.1	14069.8	<i>14207.8</i>	14225.9
20°	13608.8	13706.8	13830.2	<i>13975.4</i>	13997.2
22.5°	13282.1	13398.3	13558.0	<i>13728.6</i>	13754.0
25°	12915.5	13057.0	13242.2	<i>13449.1</i>	13481.8
27.5°	12498.0	12661.4	12911.9	<i>13144.2</i>	13173.2
30°	12044.3	12236.7	12548.9	<i>12824.7</i>	12871.9
32.5°	11565.1	11786.6	12171.3	<i>12479.9</i>	12545.2
35°	11042.4	11300.1	11764.8	<i>12120.5</i>	12193.1
37.5°	10527.0	10810.1	11336.4	<i>11743.0</i>	11830.1
40°	9924.4	10276.5	10879.1	<i>11329.2</i>	11434.4
42.5°	9358.1	9739.2	10421.7	<i>10911.7</i>	11013.4
45°	8715.6	9154.8	9920.7	<i>10461.6</i>	10574.1
47.5°	8113.0	8588.5	9438.0	<i>9997.0</i>	10113.1
50°	7477.8	8000.5	8922.5	<i>9506.9</i>	9626.7
52.5°	6842.5	7405.2	8388.9	<i>8995.1</i>	9107.6
55°	6174.6	6813.5	7848.0	<i>8439.7</i>	8541.4
57.5°	5553.9	6229.1	7292.6	<i>7855.3</i>	7917.0
60°	4940.4	5641.0	6726.4	<i>7220.0</i>	7241.8
62.5°	4341.5	5078.3	6145.6	<i>6537.6</i>	6508.6
65°	3767.9	4537.5	5553.9	<i>5829.8</i>	5764.4
67.5°	3216.2	4011.1	4947.7	<i>5125.5</i>	5038.4
70°	2693.4	3499.3	4359.6	<i>4450.4</i>	4370.5
72.5°	2232.4	3012.9	3764.3	<i>3840.5</i>	3782.4
75°	1775.1	2548.2	3216.2	<i>3299.7</i>	3267.0
77.5°	1346.7	2098.1	2711.6	<i>2820.5</i>	2827.8
80°	969.2	1687.9	2272.4	<i>2443.0</i>	2464.8
82.5°	638.9	1310.4	1905.7	<i>2123.5</i>	2156.2
85°	370.3	976.5	1611.7	<i>1833.1</i>	1865.8
87.5°	159.7	704.2	1295.9	<i>1495.6</i>	1535.5
90°	0.0	381.1	922.0	<i>1161.6</i>	1208.8
92.5°	10.9	315.8	791.3	<i>1009.1</i>	1049.1
95°	18.1	257.7	689.7	<i>878.5</i>	911.1
97.5°	21.8	217.8	598.9	<i>765.9</i>	798.6
100°	21.8	188.8	519.1	<i>671.5</i>	700.6
102.5°	21.8	167.0	453.7	<i>588.1</i>	613.5
105°	25.4	148.8	399.3	<i>522.7</i>	544.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	29.0	98.0	275.9	370.3	384.8
115°	29.0	83.5	246.8	330.3	344.8
117.5°	32.7	72.6	217.8	297.7	308.5
120°	32.7	61.7	192.4	265.0	279.5
122.5°	32.7	50.8	170.6	239.6	250.5
125°	29.0	39.9	148.8	214.2	225.1
127.5°	25.4	32.7	127.0	192.4	203.3
130°	25.4	29.0	108.9	170.6	181.5
132.5°	25.4	32.7	90.7	148.8	163.3
135°	25.4	32.7	76.2	130.7	145.2
137.5°	25.4	32.7	61.7	112.5	127.0
140°	29.0	32.7	50.8	94.4	108.9
142.5°	32.7	32.7	39.9	79.9	90.7
145°	36.3	32.7	36.3	65.3	76.2
147.5°	36.3	36.3	36.3	50.8	61.7
150°	36.3	39.9	36.3	39.9	50.8
152.5°	36.3	39.9	36.3	32.7	39.9
155°	36.3	39.9	36.3	32.7	36.3
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°	25.4	130.7	352.1	464.6	482.8
110°	25.4	116.2	312.2	413.8	432.0



(END OF REPORT)