

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: P830123

Luminaire Tested: **OHBL-24SE-MFL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830123
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-24SE-MFL-UNV-L930-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

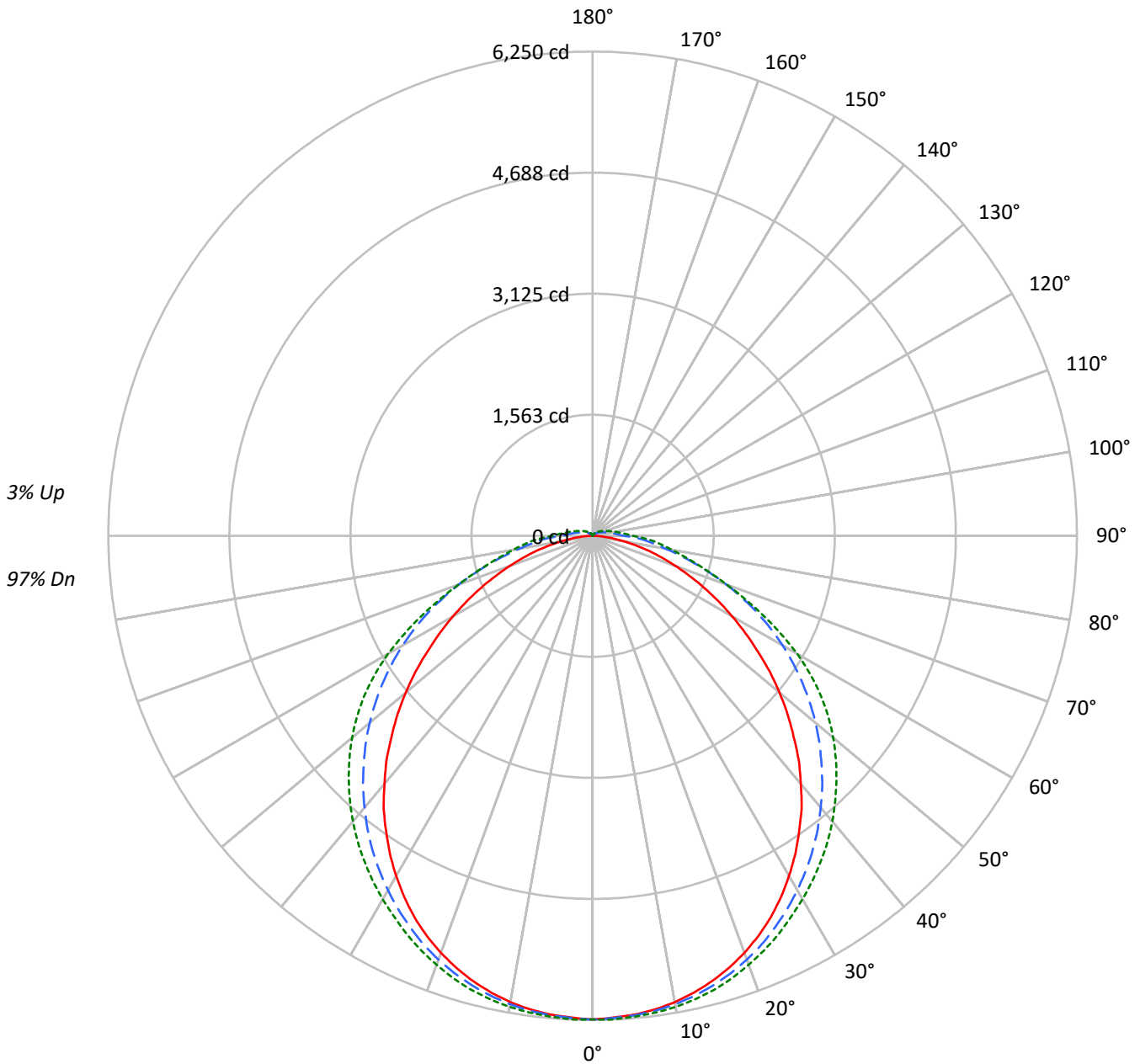
Lumens per Lamp: N/A
Luminaire Lumens: 18686.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
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	115	115	115	115	109	109	109	104	104	104	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	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10664	10664	10664
5°	10596	10558	10588
10°	10521	10460	10526
15°	10404	10344	10447
20°	10248	10203	10333
25°	10040	10029	10219
30°	9751	9839	10103
35°	9402	9638	10002
40°	8982	9406	9901
45°	8488	9154	9774
50°	7947	8899	9621
55°	7281	8588	9368
60°	6600	8221	8876
65°	5856	7754	8075
70°	5050	7160	7207
75°	4234	6473	6608
80°	3210	5963	6511
85°	2031	6142	7181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.6	3.2
10°-20°	1697.3	9.1
20°-30°	2566.8	13.7
30°-40°	3081.5	16.5
40°-50°	3182.6	17.0
50°-60°	2863.4	15.3
60°-70°	2156.9	11.5
70°-80°	1302.4	7.0
80°-90°	637.0	3.4
90°-100°	268.1	1.4
100°-110°	153.0	0.8
110°-120°	89.9	0.5
120°-130°	50.8	0.3
130°-140°	26.8	0.1
140°-150°	13.0	0.1
150°-160°	4.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4855.7	26.0
0°-40°	7937.1	42.5
0°-60°	13983.2	74.8
0°-90°	18079.5	96.8
90°-120°	511.0	2.7
90°-150°	601.6	3.2
90°-180°	606.0	3.2
0°-180°	18686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6244	6244	6244	6244	6244	
5°	6204	6221	6213	6238	6230	589
15°	5953	5982	6010	6060	6066	1678
25°	5437	5496	5574	5661	5675	2501
35°	4648	4757	4952	5102	5133	2906
45°	3669	3854	4176	4404	4451	2832
55°	2599	2868	3304	3553	3596	2330
65°	1586	1910	2338	2454	2426	1576
75°	747	1073	1354	1389	1375	797
85°	156	411	678	772	785	180
90°	0	160	388	489	509	10
95°	8	108	290	370	384	6
105°	11	63	168	220	229	11
115°	12	35	104	139	145	12
125°	12	17	63	90	95	11
135°	11	14	32	55	61	8
145°	15	14	15	28	32	9
155°	15	17	15	14	15	5
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°	6243.6	6243.6	6243.6	6243.6	6243.6
2.5°	6225.3	6240.5	6231.4	6251.2	6249.7
5°	6203.9	6220.7	6213.0	6237.5	6229.8
7.5°	6167.2	6185.5	6184.0	6211.5	6208.4
10°	6113.7	6133.6	6139.7	6176.4	6176.4
12.5°	6040.4	6066.3	6081.6	6125.9	6127.5
15°	5953.3	5982.3	6009.8	6060.2	6066.3
17.5°	5847.8	5884.5	5922.7	5980.8	5988.4
20°	5728.6	5769.9	5821.8	5883.0	5892.1
22.5°	5591.1	5640.0	5707.2	5779.1	5789.8
25°	5436.8	5496.4	5574.3	5661.4	5675.2
27.5°	5261.1	5329.8	5435.3	5533.0	5545.3
30°	5070.0	5151.0	5282.4	5398.6	5418.4
32.5°	4868.3	4961.6	5123.5	5253.4	5280.9
35°	4648.3	4756.8	4952.4	5102.1	5132.7
37.5°	4431.3	4550.5	4772.1	4943.2	4979.9
40°	4177.7	4325.9	4579.5	4769.0	4813.3
42.5°	3939.3	4099.7	4387.0	4593.3	4636.1
45°	3668.8	3853.7	4176.1	4403.8	4451.2
47.5°	3415.2	3615.4	3972.9	4208.2	4257.1
50°	3147.8	3367.8	3755.9	4001.9	4052.4
52.5°	2880.4	3117.2	3531.3	3786.5	3833.9
55°	2599.2	2868.1	3303.6	3552.7	3595.5
57.5°	2337.9	2622.1	3069.8	3306.7	3332.7
60°	2079.7	2374.6	2831.5	3039.3	3048.4
62.5°	1827.5	2137.7	2587.0	2752.0	2739.8
65°	1586.1	1910.1	2337.9	2454.0	2426.5
67.5°	1353.8	1688.5	2082.7	2157.6	2120.9
70°	1133.8	1473.0	1835.2	1873.4	1839.8
72.5°	939.7	1268.3	1584.6	1616.7	1592.2
75°	747.2	1072.7	1353.8	1389.0	1375.2
77.5°	566.9	883.2	1141.4	1187.3	1190.3
80°	408.0	710.5	956.6	1028.4	1037.5
82.5°	268.9	551.6	802.2	893.9	907.7
85°	155.9	411.0	678.5	771.7	785.4
87.5°	67.2	296.4	545.5	629.6	646.4
90°	0.0	160.4	388.1	489.0	508.8
92.5°	4.6	132.9	333.1	424.8	441.6
95°	7.6	108.5	290.3	369.8	383.5
97.5°	9.2	91.7	252.1	322.4	336.2
100°	9.2	79.5	218.5	282.7	294.9
102.5°	9.2	70.3	191.0	247.5	258.2
105°	10.7	62.6	168.1	220.0	229.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.2	41.3	116.1	155.9	162.0
115°	12.2	35.1	103.9	139.1	145.2
117.5°	13.8	30.6	91.7	125.3	129.9
120°	13.8	26.0	81.0	111.5	117.7
122.5°	13.8	21.4	71.8	100.9	105.4
125°	12.2	16.8	62.6	90.2	94.7
127.5°	10.7	13.8	53.5	81.0	85.6
130°	10.7	12.2	45.8	71.8	76.4
132.5°	10.7	13.8	38.2	62.6	68.8
135°	10.7	13.8	32.1	55.0	61.1
137.5°	10.7	13.8	26.0	47.4	53.5
140°	12.2	13.8	21.4	39.7	45.8
142.5°	13.8	13.8	16.8	33.6	38.2
145°	15.3	13.8	15.3	27.5	32.1
147.5°	15.3	15.3	15.3	21.4	26.0
150°	15.3	16.8	15.3	16.8	21.4
152.5°	15.3	16.8	15.3	13.8	16.8
155°	15.3	16.8	15.3	13.8	15.3
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°	10.7	55.0	148.2	195.6	203.2
110°	10.7	48.9	131.4	174.2	181.8



(END OF REPORT)