

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: P830125

Luminaire Tested: **OHBL-24SE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830125
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-L940-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

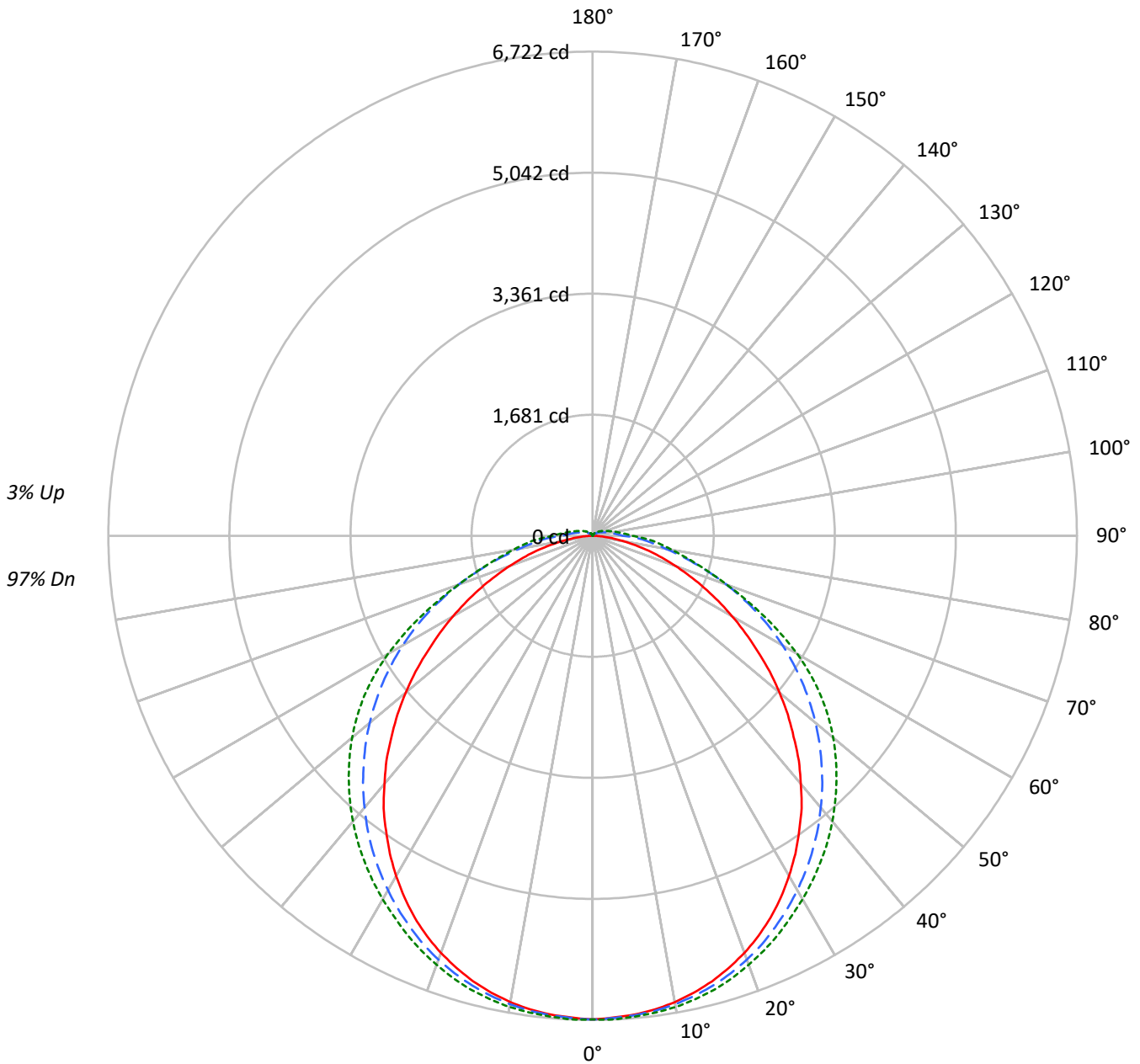
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20098.0 lumens
Efficiency: N/A
Efficacy: 145.6 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				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°	11470	11470	11470
5°	11396	11356	11389
10°	11317	11251	11322
15°	11190	11126	11236
20°	11022	10974	11114
25°	10798	10786	10991
30°	10488	10583	10866
35°	10112	10367	10757
40°	9661	10117	10649
45°	9129	9846	10513
50°	8547	9572	10348
55°	7832	9237	10076
60°	7099	8842	9546
65°	6299	8340	8685
70°	5432	7701	7752
75°	4554	6962	7108
80°	3453	6413	7003
85°	2184	6606	7725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.3	3.2
10°-20°	1825.5	9.1
20°-30°	2760.8	13.7
30°-40°	3314.3	16.5
40°-50°	3423.1	17.0
50°-60°	3079.8	15.3
60°-70°	2319.9	11.5
70°-80°	1400.8	7.0
80°-90°	685.1	3.4
90°-100°	288.4	1.4
100°-110°	164.6	0.8
110°-120°	96.6	0.5
120°-130°	54.7	0.3
130°-140°	28.8	0.1
140°-150°	14.0	0.1
150°-160°	5.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5222.6	26.0
0°-40°	8536.9	42.5
0°-60°	15039.8	74.8
0°-90°	19445.7	96.8
90°-120°	549.7	2.7
90°-150°	647.1	3.2
90°-180°	652.0	3.2
0°-180°	20098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6715	6715	6715	6715	6715	
5°	6673	6691	6682	6709	6701	634
15°	6403	6434	6464	6518	6525	1805
25°	5848	5912	5996	6089	6104	2690
35°	5000	5116	5327	5488	5520	3125
45°	3946	4145	4492	4737	4788	3046
55°	2796	3085	3553	3821	3867	2506
65°	1706	2054	2515	2640	2610	1695
75°	804	1154	1456	1494	1479	857
85°	168	442	730	830	845	194
90°	0	173	418	526	547	11
95°	8	117	312	398	412	7
105°	12	67	181	237	246	12
115°	13	38	112	150	156	13
125°	13	18	67	97	102	12
135°	12	15	34	59	66	9
145°	16	15	16	30	34	10
155°	16	18	16	15	16	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°	6715.4	6715.4	6715.4	6715.4	6715.4
2.5°	6695.7	6712.1	6702.2	6723.6	6722.0
5°	6672.7	6690.7	6682.5	6708.8	6700.6
7.5°	6633.2	6652.9	6651.3	6680.9	6677.6
10°	6575.7	6597.0	6603.6	6643.1	6643.1
12.5°	6496.8	6524.7	6541.2	6588.8	6590.5
15°	6403.1	6434.3	6463.9	6518.2	6524.7
17.5°	6289.7	6329.2	6370.2	6432.7	6440.9
20°	6161.5	6205.9	6261.8	6327.5	6337.4
22.5°	6013.6	6066.2	6138.5	6215.8	6227.3
25°	5847.6	5911.7	5995.5	6089.2	6104.0
27.5°	5658.6	5732.6	5846.0	5951.1	5964.3
30°	5453.2	5540.3	5681.6	5806.5	5827.9
32.5°	5236.2	5336.5	5510.7	5650.4	5680.0
35°	4999.6	5116.2	5326.6	5487.7	5520.5
37.5°	4766.2	4894.4	5132.7	5316.8	5356.2
40°	4493.4	4652.8	4925.6	5129.4	5177.1
42.5°	4237.0	4409.5	4718.5	4940.4	4986.4
45°	3946.1	4144.9	4491.7	4736.6	4787.5
47.5°	3673.2	3888.5	4273.1	4526.2	4578.8
50°	3385.6	3622.3	4039.7	4304.4	4358.6
52.5°	3098.0	3352.8	3798.2	4072.6	4123.6
55°	2795.6	3084.9	3553.3	3821.2	3867.2
57.5°	2514.6	2820.3	3301.8	3556.6	3584.5
60°	2236.8	2554.0	3045.4	3268.9	3278.8
62.5°	1965.6	2299.3	2782.5	2960.0	2946.8
65°	1706.0	2054.4	2514.6	2639.5	2609.9
67.5°	1456.1	1816.1	2240.1	2320.6	2281.2
70°	1219.5	1584.3	1973.9	2014.9	1978.8
72.5°	1010.8	1364.1	1704.3	1738.8	1712.5
75°	803.7	1153.7	1456.1	1494.0	1479.2
77.5°	609.7	949.9	1227.7	1277.0	1280.3
80°	438.8	764.2	1028.8	1106.1	1115.9
82.5°	289.3	593.3	862.8	961.5	976.2
85°	167.6	442.1	729.7	830.0	844.8
87.5°	72.3	318.8	586.7	677.1	695.2
90°	0.0	172.6	417.5	525.9	547.3
92.5°	4.9	143.0	358.3	456.9	475.0
95°	8.2	116.7	312.3	397.7	412.5
97.5°	9.9	98.6	271.2	346.8	361.6
100°	9.9	85.5	235.0	304.0	317.2
102.5°	9.9	75.6	205.4	266.2	277.8
105°	11.5	67.4	180.8	236.7	246.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.1	44.4	124.9	167.6	174.2
115°	13.1	37.8	111.8	149.6	156.1
117.5°	14.8	32.9	98.6	134.8	139.7
120°	14.8	27.9	87.1	120.0	126.6
122.5°	14.8	23.0	77.2	108.5	113.4
125°	13.1	18.1	67.4	97.0	101.9
127.5°	11.5	14.8	57.5	87.1	92.0
130°	11.5	13.1	49.3	77.2	82.2
132.5°	11.5	14.8	41.1	67.4	74.0
135°	11.5	14.8	34.5	59.2	65.7
137.5°	11.5	14.8	27.9	50.9	57.5
140°	13.1	14.8	23.0	42.7	49.3
142.5°	14.8	14.8	18.1	36.2	41.1
145°	16.4	14.8	16.4	29.6	34.5
147.5°	16.4	16.4	16.4	23.0	27.9
150°	16.4	18.1	16.4	18.1	23.0
152.5°	16.4	18.1	16.4	14.8	18.1
155°	16.4	18.1	16.4	14.8	16.4
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°	11.5	59.2	159.4	210.4	218.6
110°	11.5	52.6	141.3	187.4	195.6



(END OF REPORT)