

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: P830137

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-N-UNV-L940-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

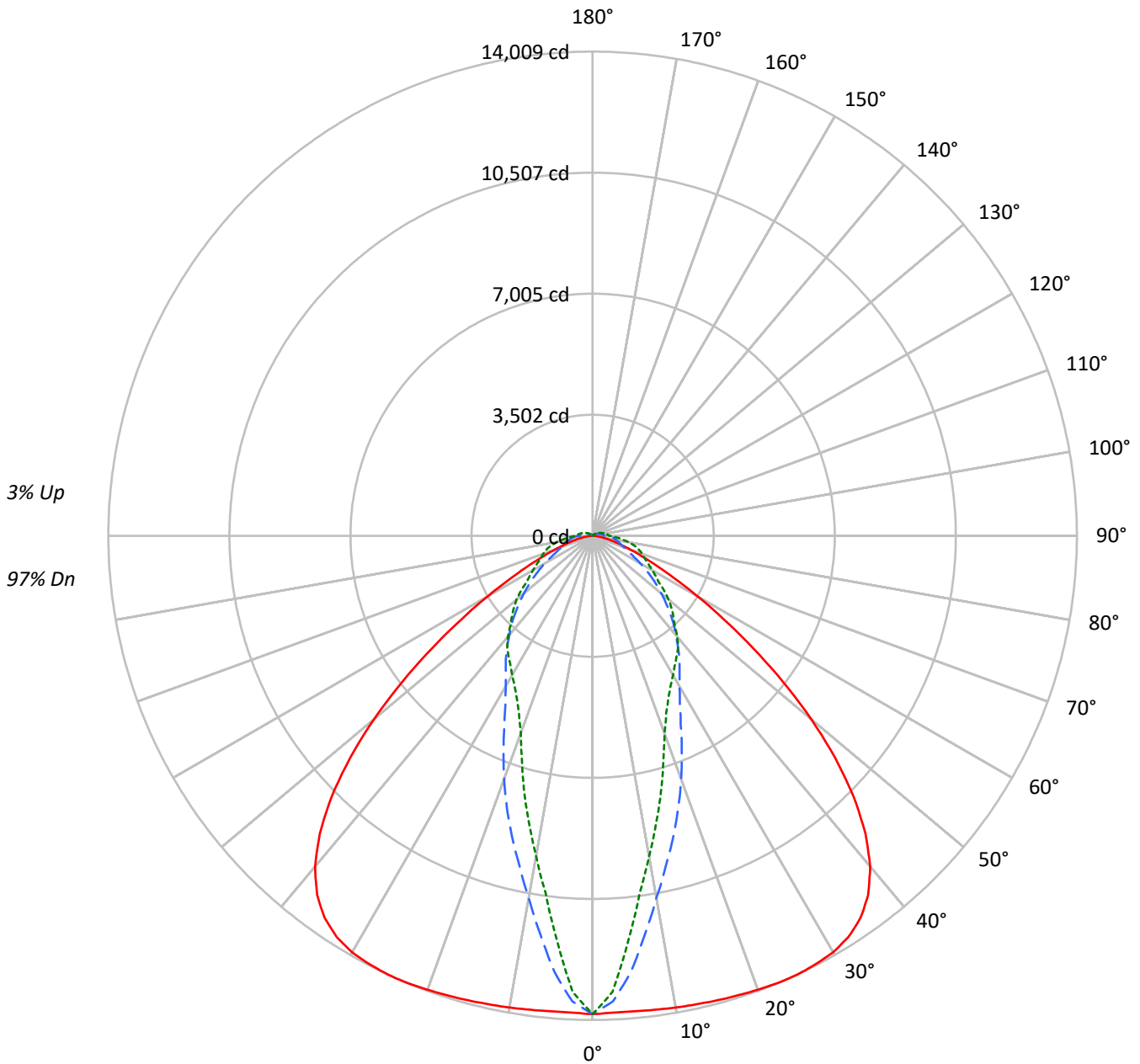
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20425.0 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23637	23637	23637
5°	23589	21526	20013
10°	23855	18132	16048
15°	24321	15507	13171
20°	25004	13112	10653
25°	25869	10853	9335
30°	26763	9350	8672
35°	27320	8521	8262
40°	26852	7697	7838
45°	24703	6956	7257
50°	20842	6145	6811
55°	15837	5382	6061
60°	11098	4616	5802
65°	7465	3975	5680
70°	5098	3731	5959
75°	3538	3848	6367
80°	2435	4261	6555
85°	1424	5330	6877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.0	5.7
10°-20°	2740.5	13.4
20°-30°	3435.2	16.8
30°-40°	3645.1	17.8
40°-50°	3295.7	16.1
50°-60°	2389.6	11.7
60°-70°	1499.6	7.3
70°-80°	992.4	4.9
80°-90°	571.7	2.8
90°-100°	277.0	1.4
100°-110°	191.2	0.9
110°-120°	118.0	0.6
120°-130°	57.1	0.3
130°-140°	26.3	0.1
140°-150°	14.4	0.1
150°-160°	6.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	7340.6	35.9
0°-40°	10985.7	53.8
0°-60°	16671.1	81.6
0°-90°	19734.9	96.6
90°-120°	586.1	2.9
90°-150°	683.9	3.3
90°-180°	690.0	3.4
0°-180°	20425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13839	13839	13839	13839	13839	
5°	13811	13457	12667	12079	11775	###
15°	13917	11343	9009	8012	7648	3947
25°	14009	8771	6032	5354	5184	6472
35°	13507	5831	4378	4241	4240	8397
45°	10678	3693	3173	3249	3305	8134
55°	5653	2289	2070	2246	2326	5108
65°	2022	1328	1199	1536	1707	2104
75°	624	715	805	1250	1325	696
85°	109	296	589	819	752	131
90°	0	124	341	481	485	7
95°	5	87	300	408	427	5
105°	10	58	219	290	298	11
115°	14	41	148	184	188	14
125°	16	21	75	95	94	14
135°	13	16	33	51	51	10
145°	16	17	20	30	29	9
155°	16	20	21	22	20	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830137

CATALOG NUMBER: OHBL-24SE-N-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13839.0	13839.0	13839.0	13839.0	13839.0
2.5°	13810.1	13731.0	13484.7	13334.6	13208.1
5°	13811.4	13457.1	12666.8	12079.3	11775.1
7.5°	13831.1	13043.5	11619.7	10762.2	10427.7
10°	13861.4	12531.1	10642.4	9728.3	9416.1
12.5°	13883.8	11954.2	9782.3	8843.2	8500.7
15°	13916.7	11343.1	9009.1	8012.1	7648.5
17.5°	13947.0	10767.5	8245.2	7203.4	6799.0
20°	13977.3	10147.1	7481.3	6407.8	6074.6
22.5°	14006.3	9492.5	6735.8	5790.1	5562.2
25°	14008.9	8770.7	6032.4	5354.1	5184.2
27.5°	13974.7	8022.6	5462.1	4989.3	4883.9
30°	13915.4	7296.9	5019.6	4725.8	4650.8
32.5°	13767.9	6556.6	4677.1	4471.6	4428.2
35°	13507.1	5830.9	4378.1	4241.1	4239.8
37.5°	13096.2	5186.8	4054.1	4030.4	4059.4
40°	12489.0	4623.1	3747.2	3810.4	3810.4
42.5°	11678.9	4133.1	3469.3	3533.8	3516.7
45°	10677.9	3693.2	3173.0	3249.3	3304.7
47.5°	9517.5	3306.0	2870.0	3017.5	3093.9
50°	8255.7	2937.2	2593.4	2781.8	2868.7
52.5°	6933.3	2596.1	2323.4	2539.4	2609.2
55°	5653.1	2289.2	2070.5	2245.7	2326.0
57.5°	4494.0	1996.8	1822.9	1988.9	2154.8
60°	3497.0	1745.2	1589.8	1826.9	1992.8
62.5°	2671.1	1521.3	1371.1	1675.4	1841.3
65°	2021.8	1327.7	1198.6	1535.8	1707.0
67.5°	1523.9	1160.4	1064.2	1434.3	1601.6
70°	1144.6	998.4	956.2	1371.1	1521.3
72.5°	845.6	849.5	870.6	1315.8	1430.4
75°	624.3	715.2	804.8	1250.0	1325.0
77.5°	446.5	592.7	745.5	1170.9	1197.3
80°	309.5	483.4	683.6	1066.9	1044.5
82.5°	193.6	387.2	628.3	952.3	890.4
85°	109.3	296.4	588.8	819.3	752.1
87.5°	48.7	221.3	515.0	638.8	596.7
90°	0.0	123.8	341.1	480.8	484.7
92.5°	2.6	102.7	314.8	439.9	453.1
95°	5.3	86.9	300.3	408.3	426.7
97.5°	6.6	76.4	281.9	379.3	395.1
100°	7.9	68.5	259.5	349.0	362.2
102.5°	9.2	63.2	238.4	317.4	328.0
105°	10.5	58.0	218.6	289.8	297.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.2	44.8	164.6	208.1	214.7
115°	14.5	40.8	147.5	184.4	188.3
117.5°	15.8	35.6	129.1	162.0	163.3
120°	15.8	31.6	110.6	138.3	138.3
122.5°	15.8	26.3	92.2	114.6	113.3
125°	15.8	21.1	75.1	94.8	93.5
127.5°	14.5	17.1	60.6	79.0	77.7
130°	14.5	17.1	48.7	67.2	67.2
132.5°	13.2	15.8	39.5	58.0	58.0
135°	13.2	15.8	32.9	51.4	51.4
137.5°	13.2	17.1	27.7	44.8	44.8
140°	13.2	15.8	23.7	39.5	39.5
142.5°	14.5	15.8	21.1	34.2	34.2
145°	15.8	17.1	19.8	30.3	29.0
147.5°	15.8	18.4	19.8	26.3	25.0
150°	15.8	19.8	19.8	23.7	22.4
152.5°	15.8	19.8	19.8	22.4	21.1
155°	15.8	19.8	21.1	22.4	19.8
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°	10.5	54.0	200.2	259.5	268.7
110°	11.9	48.7	183.1	231.8	241.0



(END OF REPORT)