

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: P828354

Luminaire Tested: **OHBL-24SE-N-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828354
REPORT IS A COMBINATION OF REPORTS P826080 AND G3-2310-221-12
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-UPL12
Description:
Light Source: -
Ballast/Driver: -

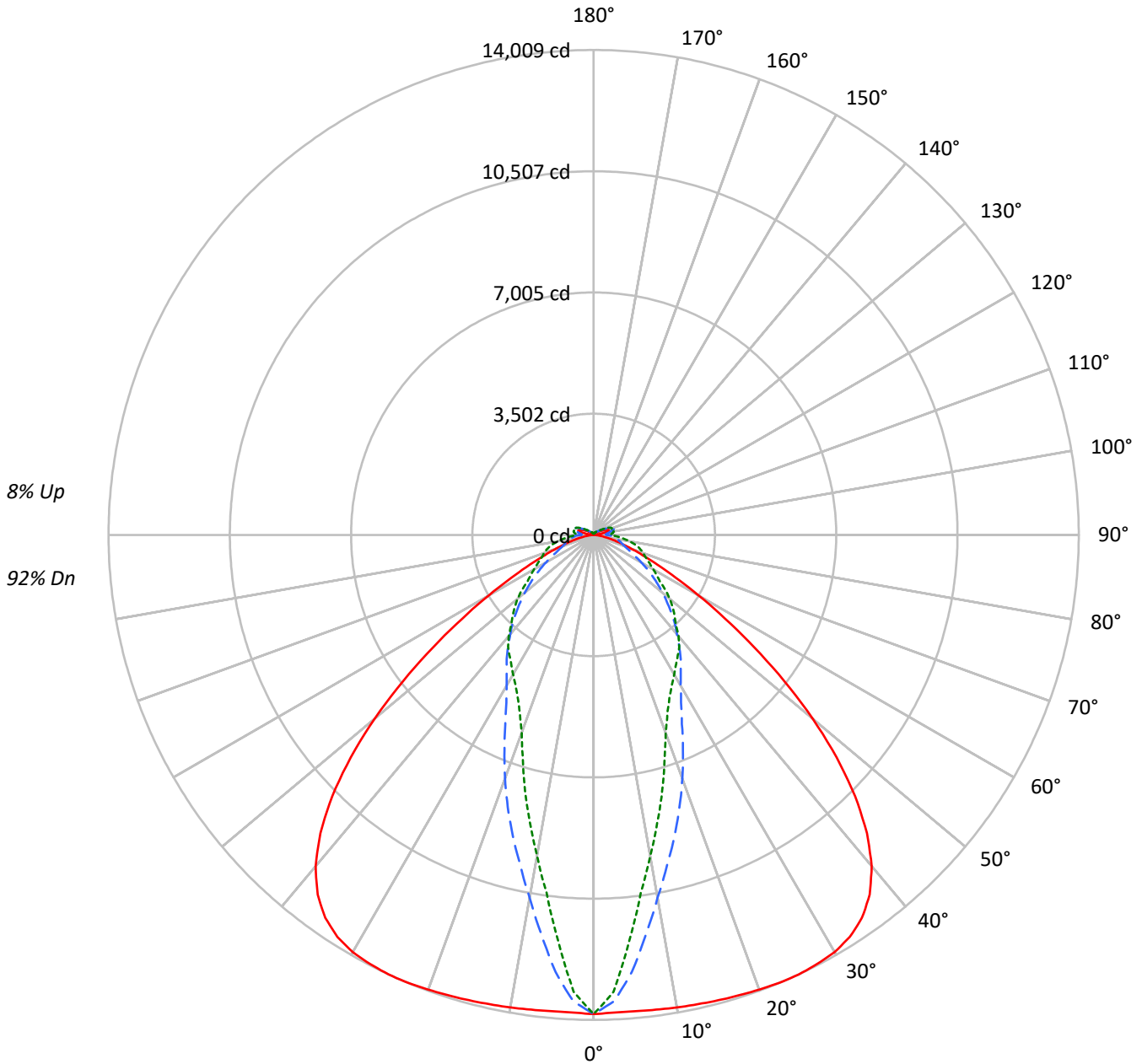
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21507.8 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.4
Input Voltage (V): NR
Input Current (Ain): 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

TEST NUMBER: P828354
CATALOG NUMBER: OHBL-24SE-N-UNV-L940-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P828354

CATALOG NUMBER: OHBL-24SE-N-UNV-L940-CD-UPL12

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	94	94	94	92																			
1	108	103	99	96	104	100	97	93	94	92	89	89	87	85	84	83	81	78																			
2	99	92	85	80	96	89	83	79	84	80	76	80	76	73	76	73	70	67																			
3	91	82	74	68	88	80	73	67	75	70	65	72	67	63	68	64	61	59																			
4	84	73	66	59	82	72	64	59	68	62	57	65	60	55	62	58	54	52																			
5	78	67	58	52	76	65	57	52	62	55	50	59	54	49	57	52	48	46																			
6	73	61	52	47	70	59	52	46	57	50	45	54	49	44	52	47	43	41																			
7	68	56	48	42	66	54	47	41	52	45	41	50	44	40	48	43	39	37																			
8	64	51	43	38	62	50	43	38	48	42	37	46	41	36	45	39	36	34																			
9	60	47	40	35	58	46	39	34	45	38	34	43	37	33	42	36	33	31																			
10	56	44	37	32	55	43	36	32	42	35	31	40	35	31	39	34	30	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23637	23637	23637
5°	23474	21526	20111
10°	23624	18132	16205
15°	23966	15507	13366
20°	24513	13112	10867
25°	25224	10853	9573
30°	25946	9350	8945
35°	26320	8521	8576
40°	25690	7697	8193
45°	23447	6956	7645
50°	19600	6145	7242
55°	14730	5382	6516
60°	10182	4616	6324
65°	6728	3975	6303
70°	4484	3731	6776
75°	3000	3848	7509
80°	1942	4261	8219
85°	999	5330	9800



TEST NUMBER: P828354

CATALOG NUMBER: OHBL-24SE-N-UNV-L940-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.0	5.4
10°-20°	2740.5	12.7
20°-30°	3435.2	16.0
30°-40°	3645.1	16.9
40°-50°	3295.8	15.3
50°-60°	2389.6	11.1
60°-70°	1499.6	7.0
70°-80°	992.4	4.6
80°-90°	574.5	2.7
90°-100°	380.4	1.8
100°-110°	551.1	2.6
110°-120°	427.1	2.0
120°-130°	205.3	1.0
130°-140°	100.4	0.5
140°-150°	57.5	0.3
150°-160°	31.4	0.1
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	7340.6	34.1
0°-40°	10985.7	51.1
0°-60°	16671.1	77.5
0°-90°	19737.6	91.8
90°-120°	1358.6	6.3
90°-150°	1721.7	8.0
90°-180°	1770.0	8.2
0°-180°	21507.8	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°	3	140	362	508	515	9
95°	27	137	375	509	543	76
105°	460	502	598	558	545	436
115°	328	354	461	496	494	327
125°	169	180	238	256	255	156
135°	102	107	128	147	147	81
145°	81	84	88	99	98	51
155°	68	73	75	77	74	29
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828354

CATALOG NUMBER: OHBL-24SE-N-UNV-L940-CD-UPL12

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	12079.4	11775.1
7.5°	13831.1	13043.5	11619.7	10762.2	10427.7
10°	13861.4	12531.1	10642.3	9728.3	9416.1
12.5°	13883.8	11954.3	9782.3	8843.2	8500.7
15°	13916.8	11343.0	9009.1	8012.1	7648.5
17.5°	13947.0	10767.5	8245.2	7203.3	6799.0
20°	13977.3	10147.1	7481.2	6407.8	6074.5
22.5°	14006.3	9492.5	6735.8	5790.1	5562.2
25°	14008.9	8770.7	6032.5	5354.1	5184.2
27.5°	13974.7	8022.6	5462.1	4989.3	4883.9
30°	13915.4	7296.9	5019.6	4725.9	4650.7
32.5°	13767.9	6556.7	4677.1	4471.6	4428.2
35°	13507.1	5830.9	4378.1	4241.2	4239.8
37.5°	13096.2	5186.8	4054.1	4030.4	4059.3
40°	12489.0	4623.1	3747.2	3810.4	3810.4
42.5°	11678.9	4133.2	3469.3	3533.9	3516.7
45°	10677.9	3693.2	3173.0	3249.4	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	1745.1	1589.8	1826.9	1992.8
62.5°	2671.1	1521.3	1371.1	1675.4	1841.3
65°	2021.8	1327.6	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	870.7	1315.8	1430.4
75°	624.3	715.2	804.8	1249.9	1325.0
77.5°	446.5	592.7	745.5	1170.9	1197.2
80°	309.5	483.4	683.6	1066.9	1044.5
82.5°	193.6	387.3	628.3	952.3	890.4
85°	109.3	296.4	588.8	819.3	752.1
87.5°	48.8	221.3	515.0	638.8	596.7
90°	2.6	139.5	362.0	507.7	515.1
92.5°	10.4	122.8	347.9	486.9	504.4
95°	27.0	137.4	375.1	509.1	543.2
97.5°	124.0	204.2	426.2	549.7	574.3
100°	247.9	326.7	474.2	573.3	590.9
102.5°	390.9	439.7	513.1	566.1	572.3
105°	460.0	502.3	597.7	558.4	544.6



TEST NUMBER: P828354

CATALOG NUMBER: OHBL-24SE-N-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.6	410.8	528.1	557.7	549.4
115°	327.5	353.9	461.4	495.7	494.4
117.5°	278.4	301.6	397.8	428.0	427.6
120°	235.8	256.8	337.6	361.8	361.8
122.5°	201.0	215.9	284.3	304.1	303.7
125°	168.8	180.1	237.6	255.7	255.3
127.5°	142.3	150.2	199.7	217.3	216.0
130°	125.8	131.9	167.9	187.2	187.2
132.5°	112.2	117.5	144.7	164.1	164.9
135°	101.8	107.1	127.7	147.0	147.0
137.5°	94.9	100.6	113.7	131.7	132.6
140°	87.9	93.2	102.9	119.5	119.5
142.5°	84.1	87.1	94.1	108.2	109.0
145°	81.0	84.1	87.6	98.9	98.5
147.5°	76.7	81.0	84.1	90.7	90.2
150°	74.1	78.9	79.7	84.6	83.3
152.5°	70.6	75.4	76.3	79.8	78.4
155°	68.0	72.8	74.9	77.2	74.5
157.5°	49.6	51.3	51.3	52.2	52.2
160°	47.8	48.7	49.6	49.6	49.6
162.5°	46.1	47.0	47.0	47.8	47.8
165°	45.2	45.2	46.1	46.1	46.1
167.5°	43.5	43.5	44.3	44.3	44.3
170°	42.6	42.6	42.6	43.5	43.5
172.5°	41.7	41.7	41.7	41.7	41.7
175°	40.9	40.9	40.9	40.9	40.9
177.5°	40.0	40.9	40.9	40.9	40.9
180°	40.0	40.0	40.0	40.0	40.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	462.6	507.8	618.4	583.7	537.3
110°	425.7	468.7	583.9	597.0	561.8



(END OF REPORT)