

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: P828263

Luminaire Tested: **OHBL-12SE-NL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828263
REPORT IS A COMBINATION OF REPORTS P826057 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-12SE-NL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

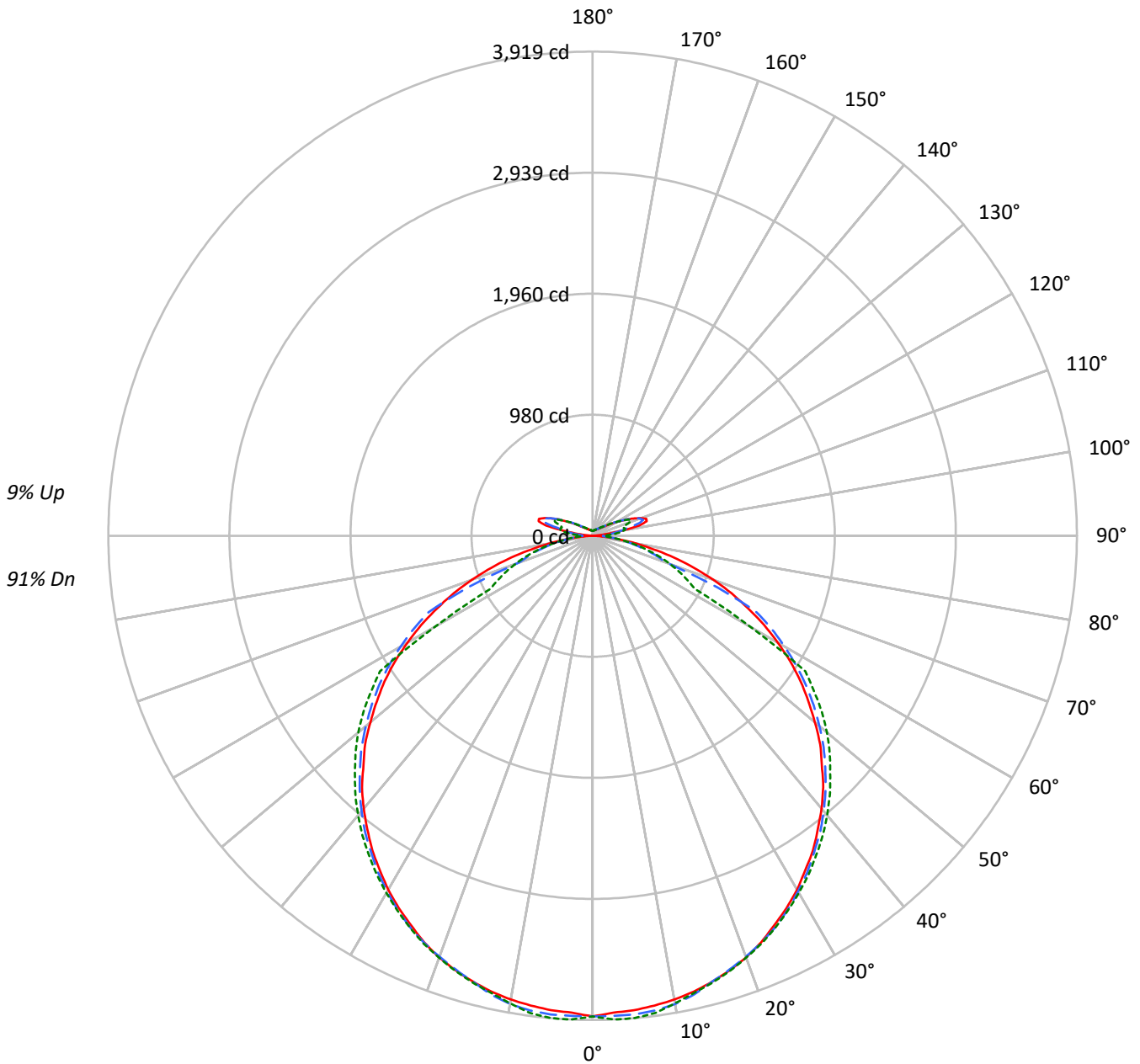
Lumens per Lamp: N/A
Luminaire Lumens: 12005.5 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Direct

Input Watts (W): 78.4
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

TEST NUMBER: P828263

CATALOG NUMBER: OHBL-12SE-NL-UNV-L940-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P828263

CATALOG NUMBER: OHBL-12SE-NL-UNV-L940-CD-UPL12

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	91
1	107	103	99	95	103	99	96	92	93	90	88	88	86	83	83	81	79	79	79	79	77
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	67	67	67	64
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	49	49	49	47
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	43	43	43	40
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	37	37	37	35
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	33	33	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	30	30	30	28
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	27	27	27	25
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12657	12657	12657
5°	12462	12591	12767
10°	12342	12491	12635
15°	12214	12259	12525
20°	12069	12113	12463
25°	11853	11992	12406
30°	11658	11813	12351
35°	11432	11606	12303
40°	11169	11404	12267
45°	10826	11137	12191
50°	10458	10838	12142
55°	10019	10469	11936
60°	9403	9949	9221
65°	8559	9294	6142
70°	7502	4701	5872
75°	6027	4148	5474
80°	4012	3337	4793
85°	1447	2468	4148



TEST NUMBER: P828263

CATALOG NUMBER: OHBL-12SE-NL-UNV-L940-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.6	3.1
10°-20°	1058.3	8.8
20°-30°	1610.3	13.4
30°-40°	1957.8	16.3
40°-50°	2058.6	17.1
50°-60°	1879.7	15.7
60°-70°	1205.0	10.0
70°-80°	569.2	4.7
80°-90°	160.6	1.3
90°-100°	145.2	1.2
100°-110°	371.3	3.1
110°-120°	312.3	2.6
120°-130°	148.1	1.2
130°-140°	74.1	0.6
140°-150°	43.1	0.4
150°-160°	25.2	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	3038.2	25.3
0°-40°	4996.0	41.6
0°-60°	8934.3	74.4
0°-90°	10869.1	90.5
90°-120°	828.9	6.9
90°-150°	1094.2	9.1
90°-180°	1136.0	9.5
0°-180°	12005.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3890	3890	3890	3890	3890	
5°	3854	3869	3889	3910	3918	367
15°	3738	3766	3737	3742	3745	1055
25°	3478	3484	3496	3501	3499	1605
35°	3109	3090	3126	3164	3155	1943
45°	2622	2617	2662	2724	2720	2027
55°	2055	2039	2108	2178	2184	1833
65°	1384	1384	1465	840	843	1373
75°	684	697	452	476	478	721
85°	89	113	141	153	145	132
90°	3	54	84	101	104	6
95°	24	70	120	162	177	73
105°	453	452	390	280	257	429
115°	316	318	321	316	307	315
125°	153	159	163	161	162	143
135°	89	91	95	96	96	71
145°	65	67	68	69	70	41
155°	52	53	54	55	55	24
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



TEST NUMBER: P828263

CATALOG NUMBER: OHBL-12SE-NL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3890.4	3890.4	3890.4	3890.4	<i>3890.4</i>
2.5°	<i>3863.1</i>	<i>3876.2</i>	<i>3890.4</i>	<i>3908.8</i>	<i>3919.0</i>
5°	3854.2	3869.3	3889.0	3910.2	<i>3918.4</i>
7.5°	3835.1	3856.2	3875.4	3890.4	<i>3895.2</i>
10°	3811.2	3836.5	3847.5	3846.1	<i>3842.7</i>
12.5°	3779.1	3805.8	3802.4	3786.6	<i>3789.4</i>
15°	3737.5	3765.5	3736.9	3742.3	<i>3745.0</i>
17.5°	3688.4	3715.7	3682.2	3693.1	<i>3693.8</i>
20°	3631.1	3651.5	3625.6	3634.5	<i>3634.5</i>
22.5°	3562.1	3576.4	3565.5	3571.6	<i>3573.0</i>
25°	3478.1	3483.5	3495.8	3501.3	<i>3498.6</i>
27.5°	3397.6	3390.7	3414.7	3427.6	<i>3420.7</i>
30°	3308.1	3297.2	3325.2	3346.3	<i>3338.1</i>
32.5°	3205.7	3198.9	3231.0	3256.2	<i>3251.5</i>
35°	3108.8	3090.4	3125.8	3164.1	<i>3155.2</i>
37.5°	2994.1	2983.2	3023.4	3063.7	<i>3059.0</i>
40°	2882.1	2863.7	2909.4	2957.2	<i>2952.5</i>
42.5°	2762.1	2740.1	2790.0	2847.3	<i>2841.9</i>
45°	2622.0	2617.3	2661.6	2724.4	<i>2719.7</i>
47.5°	2497.8	2473.9	2536.0	2596.8	<i>2602.3</i>
50°	2347.6	2338.8	2395.4	2469.1	<i>2474.6</i>
52.5°	2200.9	2194.7	2254.0	2328.5	<i>2338.0</i>
55°	2054.8	2039.0	2108.1	2178.3	<i>2183.9</i>
57.5°	1898.5	1882.1	1952.4	2028.8	<i>2040.4</i>
60°	1731.2	1715.5	1792.6	1863.7	<i>1482.1</i>
62.5°	1564.0	1553.0	1633.6	1157.1	<i>932.6</i>
65°	1384.4	1384.4	1464.9	840.3	<i>843.1</i>
67.5°	1216.5	1205.6	1092.3	754.9	<i>754.9</i>
70°	1036.3	1040.4	629.4	661.6	<i>662.2</i>
72.5°	855.4	870.4	543.4	569.3	<i>570.7</i>
75°	684.0	697.0	452.5	476.5	<i>478.5</i>
77.5°	502.5	386.4	363.9	382.3	<i>383.0</i>
80°	352.9	243.7	278.6	296.2	<i>294.2</i>
82.5°	206.1	170.7	204.1	217.1	<i>216.4</i>
85°	89.4	113.3	141.3	152.9	<i>144.7</i>
87.5°	28.6	70.3	88.0	94.9	<i>94.2</i>
90°	2.6	53.9	83.6	101.3	<i>103.5</i>
92.5°	7.8	50.0	87.6	115.3	<i>120.2</i>
95°	23.7	70.3	119.9	161.6	<i>177.3</i>
97.5°	118.8	142.2	176.4	218.1	<i>228.2</i>
100°	241.4	269.8	236.0	258.4	<i>263.5</i>
102.5°	385.1	386.0	287.7	270.5	<i>266.8</i>
105°	452.9	451.8	390.0	279.6	<i>257.2</i>



TEST NUMBER: P828263

CATALOG NUMBER: OHBL-12SE-NL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	367.5	371.5	370.9	355.0	335.3
115°	316.4	317.8	320.7	316.0	306.7
117.5°	262.6	266.0	268.7	266.0	264.3
120°	220.0	225.2	226.9	223.4	223.4
122.5°	185.2	189.5	192.1	189.5	190.4
125°	153.0	159.1	162.6	160.8	161.7
127.5°	127.8	133.0	139.1	138.2	138.2
130°	111.3	114.8	119.1	120.0	120.0
132.5°	99.1	101.7	105.2	106.1	106.9
135°	88.7	91.3	94.8	95.6	95.6
137.5°	81.7	83.5	86.1	86.9	87.8
140°	74.8	77.4	79.1	80.0	80.0
142.5°	69.6	71.3	73.0	73.9	74.8
145°	65.2	66.9	67.8	68.7	69.6
147.5°	60.9	62.6	64.3	64.3	65.2
150°	58.3	59.1	60.0	60.9	60.9
152.5°	54.8	55.6	56.5	57.4	57.4
155°	52.2	53.0	53.9	54.8	54.8
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°	455.5	460.6	427.8	330.5	270.7
110°	417.9	426.1	409.0	370.6	321.4



(END OF REPORT)