

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: P828312

Luminaire Tested: **OHBL-18SE-MCL-UNV-L940-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828312
REPORT IS A COMBINATION OF REPORTS P826066 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-18SE-MCL-UNV-L940-CD-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

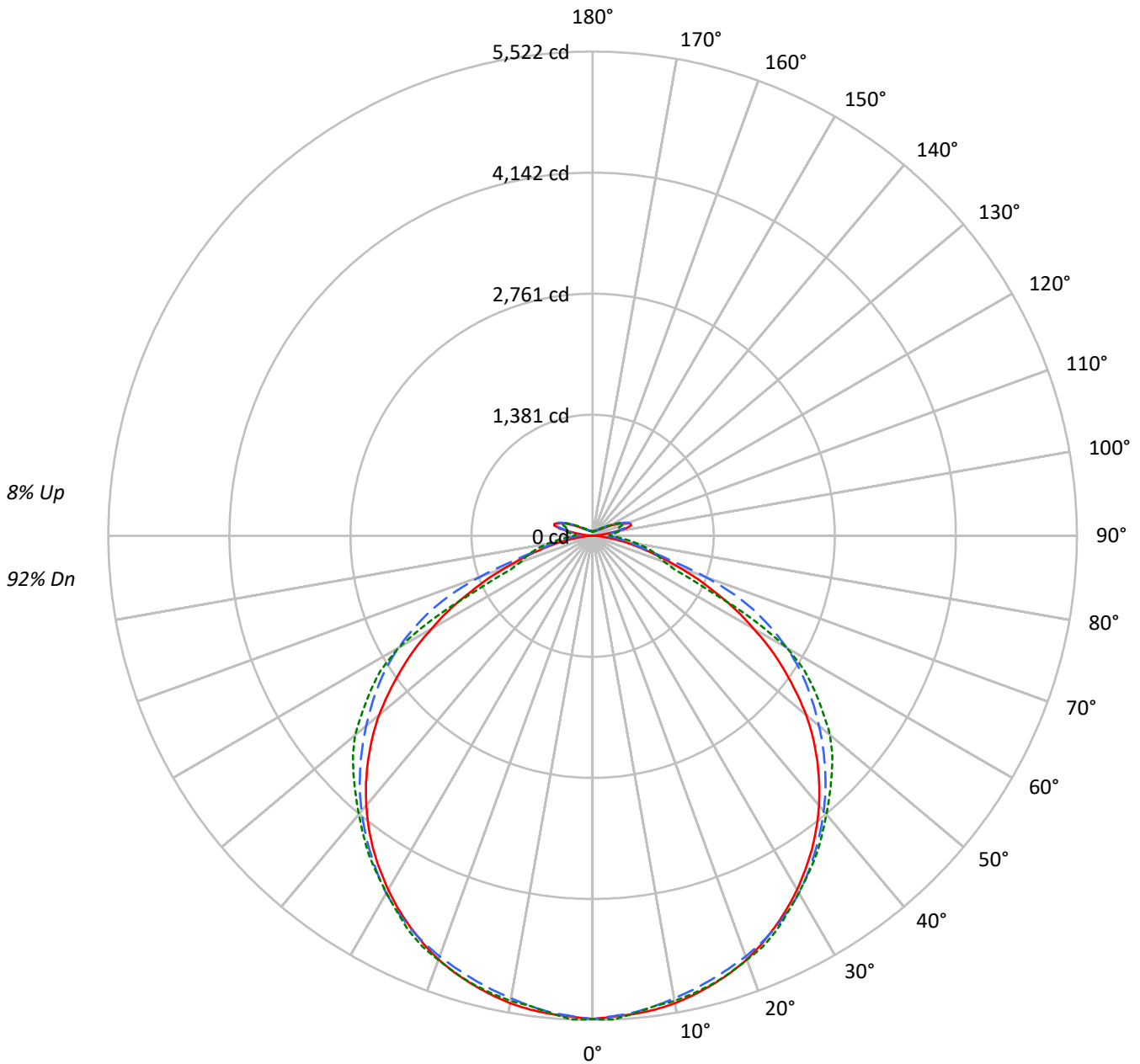
Lumens per Lamp: N/A
Luminaire Lumens: 16658.8 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
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: P828312

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L940-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P828312

CATALOG NUMBER: OHBL-18SE-MCL-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	114	114	114	114	107	107	107	101	101	101	95	95	95	92																			
1	107	103	99	95	104	100	96	93	94	91	88	89	87	84	84	82	81	78																			
2	98	90	83	78	95	87	81	76	83	78	73	78	74	71	74	71	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	60	66	61	58	55																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32																			
8	60	46	38	32	58	45	37	32	43	36	31	42	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	51	38	31	26	37	30	26	36	29	25	34	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9412	9412	9412
5°	9306	9272	9335
10°	9226	9127	9270
15°	9122	9018	9248
20°	9018	8948	9207
25°	8861	8876	9168
30°	8693	8767	9040
35°	8499	8596	8993
40°	8261	8419	8916
45°	7949	8215	8918
50°	7544	7983	8920
55°	6941	7753	8670
60°	6173	7420	8113
65°	5202	6808	5222
70°	4089	5304	3869
75°	2956	3139	4055
80°	1936	2598	4088
85°	969	2359	4299



TEST NUMBER: P828312

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L940-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.6	3.1
10°-20°	1490.0	8.9
20°-30°	2275.7	13.7
30°-40°	2761.2	16.6
40°-50°	2894.1	17.4
50°-60°	2622.4	15.7
60°-70°	1758.2	10.6
70°-80°	789.5	4.7
80°-90°	289.2	1.7
90°-100°	189.7	1.1
100°-110°	400.6	2.4
110°-120°	329.5	2.0
120°-130°	159.4	1.0
130°-140°	81.8	0.5
140°-150°	48.3	0.3
150°-160°	29.0	0.2
160°-170°	15.5	0.1
170°-180°	4.8	0.0
0°-30°	4285.4	25.7
0°-40°	7046.6	42.3
0°-60°	12563.1	75.4
0°-90°	15400.2	92.4
90°-120°	919.8	5.5
90°-150°	1209.3	7.3
90°-180°	1259.0	7.6
0°-180°	16658.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5511	5511	5511	5511	5511	
5°	5475	5494	5456	5473	5465	521
15°	5297	5277	5239	5285	5292	1496
25°	4921	4900	4934	4979	4965	2268
35°	4362	4372	4417	4464	4446	2726
45°	3620	3679	3748	3843	3855	2789
55°	2664	2792	2982	3102	3095	2378
65°	1563	1808	2053	1732	1414	1558
75°	615	892	657	672	716	672
85°	106	203	261	315	330	129
90°	3	83	156	196	207	8
95°	22	93	167	213	232	72
105°	453	463	424	324	304	429
115°	319	323	337	341	337	319
125°	159	166	177	178	179	148
135°	96	99	104	108	109	76
145°	72	75	76	78	79	46
155°	60	62	63	64	63	28
165°	54	54	55	55	55	15
175°	50	50	49	48	48	5
180°	48	48	48	48	48	



TEST NUMBER: P828312

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5510.8	5510.8	5510.8	5510.8	5510.8
2.5°	5488.5	5511.7	5483.0	5514.0	5522.0
5°	5475.0	5494.1	5455.9	5472.6	5465.4
7.5°	5450.3	5456.6	5411.2	5424.8	5410.5
10°	5413.6	5410.5	5357.1	5383.3	5386.6
12.5°	5359.4	5349.9	5302.0	5341.9	5342.7
15°	5297.3	5276.6	5239.1	5285.4	5291.7
17.5°	5225.5	5198.5	5173.8	5233.5	5224.0
20°	5141.9	5110.1	5105.3	5170.6	5146.7
22.5°	5038.3	5013.7	5024.8	5086.9	5071.8
25°	4921.2	4899.7	4933.9	4979.4	4965.0
27.5°	4797.7	4784.9	4823.9	4859.1	4831.2
30°	4662.2	4655.0	4706.8	4735.5	4700.5
32.5°	4514.8	4517.2	4566.6	4605.6	4573.0
35°	4361.8	4372.2	4416.8	4463.8	4446.3
37.5°	4193.7	4216.8	4261.4	4314.8	4296.4
40°	4016.0	4049.4	4098.8	4163.4	4146.6
42.5°	3824.0	3866.2	3930.0	4001.6	4000.1
45°	3619.9	3679.0	3747.5	3843.1	3855.0
47.5°	3408.0	3474.1	3561.0	3688.5	3706.8
50°	3177.7	3260.6	3369.0	3521.9	3533.2
52.5°	2921.2	3034.3	3177.7	3324.3	3310.8
55°	2663.8	2792.0	2982.5	3102.0	3094.9
57.5°	2407.2	2551.5	2782.5	2867.8	2867.0
60°	2120.3	2302.8	2555.4	2620.0	2556.3
62.5°	1855.0	2051.0	2313.2	2266.2	2047.8
65°	1563.3	1808.0	2052.6	1732.3	1414.3
67.5°	1304.4	1559.3	1743.4	1186.4	1015.9
70°	1043.9	1325.1	1359.4	880.5	868.6
72.5°	812.8	1112.4	937.9	753.8	792.1
75°	615.1	892.5	656.6	671.7	715.6
77.5°	448.6	685.3	510.8	588.9	624.7
80°	308.4	485.2	416.7	494.8	519.5
82.5°	193.6	320.3	333.9	398.4	423.9
85°	106.0	203.2	260.6	314.7	329.9
87.5°	43.8	122.7	199.2	243.0	255.8
90°	3.4	83.4	155.5	195.9	207.4
92.5°	8.6	71.8	143.0	183.2	193.1
95°	22.5	92.7	167.2	213.2	232.1
97.5°	118.9	161.3	221.6	263.6	275.5
100°	242.3	286.1	279.3	302.4	309.2
102.5°	384.9	398.8	328.9	314.0	312.0
105°	452.7	462.6	424.5	323.6	304.3



TEST NUMBER: P828312

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L940-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.0	377.2	390.6	383.8	370.6
115°	319.3	322.6	337.0	340.7	337.1
117.5°	268.9	274.0	288.6	290.7	290.6
120°	226.3	232.3	244.5	244.9	245.8
122.5°	191.5	195.9	207.3	208.7	210.3
125°	158.6	165.5	176.9	177.5	179.3
127.5°	134.2	139.4	151.9	153.4	154.2
130°	117.6	121.9	130.2	134.3	134.3
132.5°	106.2	109.7	115.5	119.6	120.5
135°	95.8	99.3	103.6	108.4	109.2
137.5°	89.7	91.5	94.1	98.9	100.6
140°	82.8	85.4	86.2	90.3	91.1
142.5°	76.7	79.3	80.2	83.5	85.1
145°	72.3	74.9	75.8	77.5	79.1
147.5°	68.9	70.6	72.3	72.3	74.0
150°	66.3	67.1	68.0	68.9	68.9
152.5°	62.8	63.6	64.5	65.4	65.4
155°	60.2	61.8	62.7	63.6	62.8
157.5°	57.6	60.1	60.1	60.9	60.9
160°	55.8	57.5	58.3	58.3	58.3
162.5°	54.9	55.7	55.7	56.6	56.6
165°	54.0	54.0	54.9	54.9	54.9
167.5°	52.3	53.0	53.1	53.1	53.1
170°	51.4	51.4	51.4	51.5	51.5
172.5°	50.5	50.5	50.5	49.7	49.7
175°	49.6	49.6	48.9	48.0	48.0
177.5°	49.6	49.6	48.9	48.0	47.2
180°	48.0	48.0	48.0	48.0	48.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	456.1	469.0	457.2	371.3	317.3
110°	418.6	432.7	433.5	405.0	362.3



(END OF REPORT)