

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: P828318

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828318  
REPORT IS A COMBINATION OF REPORTS P826068 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-N-UNV-L940-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

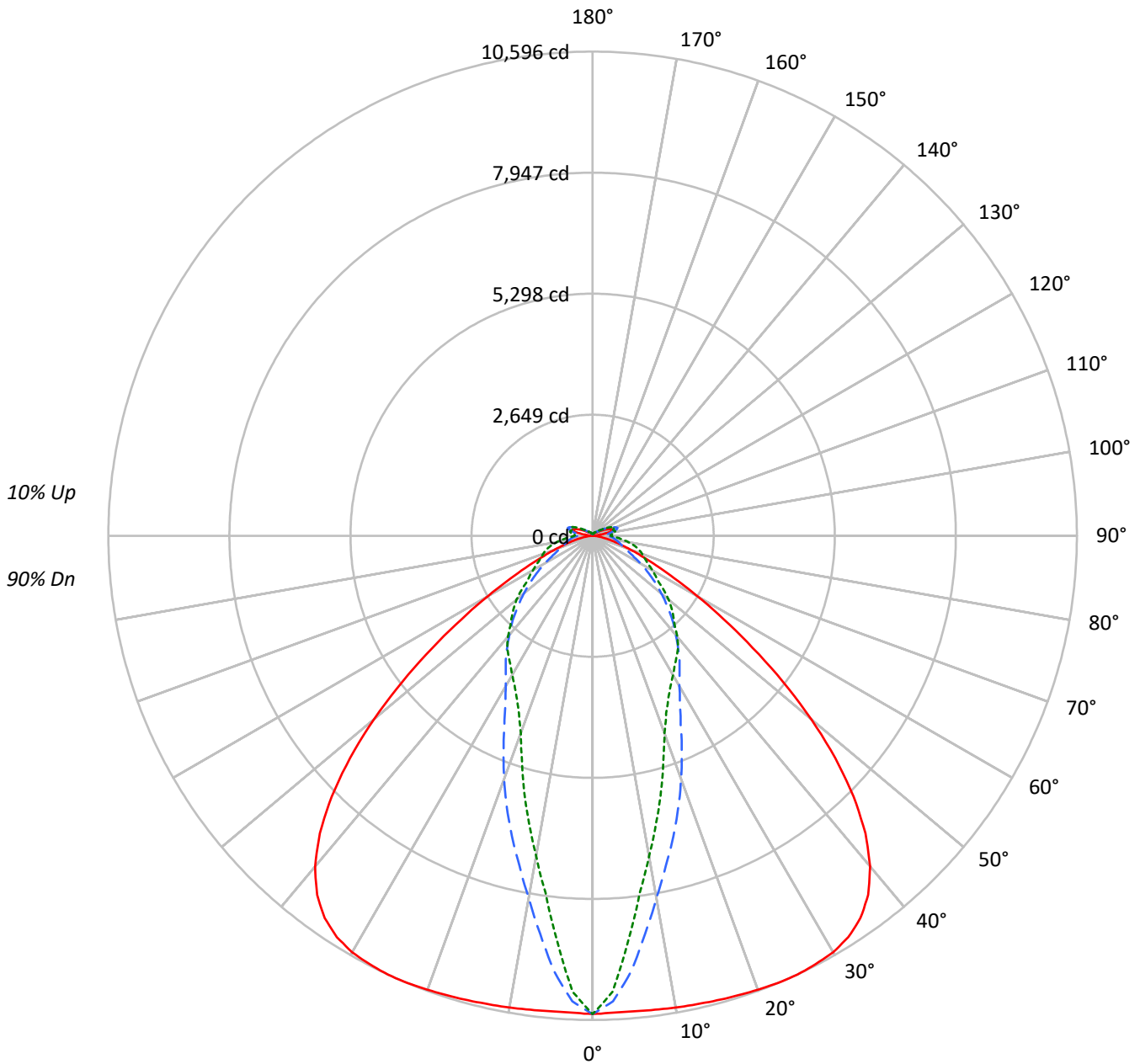
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16531.0 lumens  
Efficiency: N/A  
Efficacy: 145.8 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): 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

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	81	80	77																			
2	99	91	85	80	95	89	83	78	83	79	75	79	75	72	75	72	69	66																			
3	91	81	74	68	88	79	72	67	75	69	65	71	66	62	67	63	60	58																			
4	84	73	65	59	81	71	64	58	68	61	56	64	59	55	61	57	53	51																			
5	78	66	58	52	75	65	57	51	61	55	50	59	53	49	56	51	47	45																			
6	73	60	52	46	70	59	51	46	56	50	45	54	48	44	51	46	42	40																			
7	68	55	47	42	65	54	47	41	52	45	40	49	44	39	47	42	38	36																			
8	63	51	43	38	61	50	42	37	48	41	37	46	40	36	44	39	35	33																			
9	59	47	40	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30																			
10	56	44	36	32	54	43	36	31	41	35	31	40	34	30	38	33	30	28																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17878	17878	17878
5°	17755	16281	15211
10°	17868	13714	12256
15°	18126	11729	10110
20°	18540	9917	8219
25°	19078	8208	7241
30°	19624	7071	6765
35°	19907	6445	6486
40°	19430	5821	6197
45°	17734	5261	5783
50°	14825	4648	5477
55°	11141	4071	4929
60°	7701	3491	4784
65°	5089	3007	4767
70°	3391	2822	5125
75°	2269	2910	5679
80°	1469	3223	6216
85°	756	4031	7412



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	881.1	5.3
10°-20°	2072.7	12.5
20°-30°	2598.2	15.7
30°-40°	2757.0	16.7
40°-50°	2492.7	15.1
50°-60°	1807.4	10.9
60°-70°	1134.2	6.9
70°-80°	750.6	4.5
80°-90°	435.2	2.6
90°-100°	312.9	1.9
100°-110°	504.5	3.1
110°-120°	398.3	2.4
120°-130°	191.4	1.2
130°-140°	94.0	0.6
140°-150°	54.0	0.3
150°-160°	29.9	0.2
160°-170°	13.1	0.1
170°-180°	4.0	0.0
0°-30°	5552.0	33.6
0°-40°	8309.0	50.3
0°-60°	12609.1	76.3
0°-90°	14929.1	90.3
90°-120°	1215.7	7.4
90°-150°	1555.0	9.4
90°-180°	1602.0	9.7
0°-180°	16531.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10467	10467	10467	10467	10467	
5°	10446	10178	9580	9136	8906	999
15°	10526	8579	6814	6060	5785	2985
25°	10596	6634	4563	4050	3921	4895
35°	10216	4410	3311	3208	3207	6351
45°	8076	2793	2400	2458	2500	6152
55°	4276	1731	1566	1698	1759	3863
65°	1529	1004	907	1162	1291	1591
75°	472	541	609	945	1002	526
85°	83	224	445	620	569	99
90°	3	109	279	391	397	7
95°	26	116	302	410	439	75
105°	458	488	544	488	472	433
115°	324	344	425	451	448	324
125°	165	175	219	233	232	153
135°	99	103	120	134	134	78
145°	77	80	83	92	92	49
155°	64	68	70	72	70	28
165°	45	45	46	46	46	13
175°	41	41	41	41	41	4
180°	40	40	40	40	40	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10467.1	10467.1	10467.1	10467.1	10467.1
2.5°	10445.2	10385.3	10199.1	10085.5	9989.8
5°	10446.1	10178.2	9580.4	9136.1	8906.0
7.5°	10461.1	9865.3	8788.4	8139.9	7886.9
10°	10483.9	9477.8	8049.2	7357.9	7121.8
12.5°	10500.9	9041.4	7398.7	6688.5	6429.5
15°	10525.8	8579.2	6814.0	6059.9	5784.9
17.5°	10548.7	8143.9	6236.2	5448.2	5142.3
20°	10571.7	7674.7	5658.4	4846.5	4594.5
22.5°	10593.6	7179.6	5094.5	4379.3	4207.0
25°	10595.6	6633.7	4562.6	4049.5	3921.0
27.5°	10569.7	6067.9	4131.3	3773.6	3693.9
30°	10524.8	5519.0	3796.5	3574.4	3517.6
32.5°	10413.2	4959.1	3537.5	3382.1	3349.2
35°	10216.0	4410.2	3311.4	3207.7	3206.8
37.5°	9905.1	3923.0	3066.3	3048.4	3070.3
40°	9445.9	3496.6	2834.2	2882.0	2882.0
42.5°	8833.3	3126.1	2624.0	2672.8	2659.8
45°	8076.2	2793.4	2399.8	2457.7	2499.5
47.5°	7198.5	2500.4	2170.7	2282.3	2340.0
50°	6244.2	2221.5	1961.6	2104.0	2169.7
52.5°	5244.0	1963.5	1757.3	1920.7	1973.5
55°	4275.7	1731.4	1566.0	1698.5	1759.3
57.5°	3399.0	1510.2	1378.8	1504.2	1629.8
60°	2644.9	1320.0	1202.4	1381.7	1507.3
62.5°	2020.3	1150.6	1037.1	1267.1	1392.7
65°	1529.2	1004.2	906.6	1161.6	1291.0
67.5°	1152.6	877.6	804.9	1084.9	1211.4
70°	865.7	755.1	723.2	1037.1	1150.6
72.5°	639.6	642.5	658.5	995.2	1081.8
75°	472.2	541.0	608.7	945.4	1002.2
77.5°	337.7	448.3	563.8	885.6	905.5
80°	234.1	365.6	517.1	806.9	790.0
82.5°	146.4	292.9	475.2	720.2	673.5
85°	82.7	224.1	445.3	619.7	568.8
87.5°	36.9	167.4	389.5	483.2	451.2
90°	2.6	109.3	278.9	390.6	397.0
92.5°	9.8	97.7	271.1	379.7	394.0
95°	25.7	116.2	301.9	409.7	439.2
97.5°	122.3	185.6	357.5	457.3	477.9
100°	246.0	310.0	411.0	488.3	502.6
102.5°	388.6	424.3	455.1	488.7	492.4
105°	457.5	488.1	544.4	487.8	472.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	373.4	399.9	487.9	506.9	497.1
115°	324.0	343.9	425.4	450.7	448.5
117.5°	274.5	292.9	366.3	388.6	387.9
120°	231.9	249.1	310.6	328.0	328.0
122.5°	197.1	209.4	261.9	276.2	276.0
125°	164.9	175.0	219.4	232.6	232.5
127.5°	138.8	146.0	184.9	198.0	197.0
130°	122.2	127.7	156.0	170.8	170.8
132.5°	109.1	113.6	135.1	149.9	150.8
135°	98.7	103.2	119.6	134.5	134.5
137.5°	91.7	96.4	107.0	120.9	121.7
140°	84.8	89.3	97.0	109.9	109.9
142.5°	80.5	83.2	88.9	99.8	100.7
145°	77.1	79.9	82.8	91.6	91.5
147.5°	72.8	76.5	79.3	84.2	84.2
150°	70.2	74.1	74.9	78.8	77.8
152.5°	66.7	70.6	71.5	74.3	73.3
155°	64.1	68.0	69.8	71.7	69.7
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°	460.1	494.7	569.7	520.5	471.8
110°	422.8	456.8	539.3	540.5	503.1



(END OF REPORT)