

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: P828009

Luminaire Tested: **OHBL-18SE-A-UNV-L935-CD-UPL12**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828009  
REPORT IS A COMBINATION OF REPORTS P826065 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-A-UNV-L935-CD-UPL12  
Description:  
Light Source: -  
Ballast/Driver: -

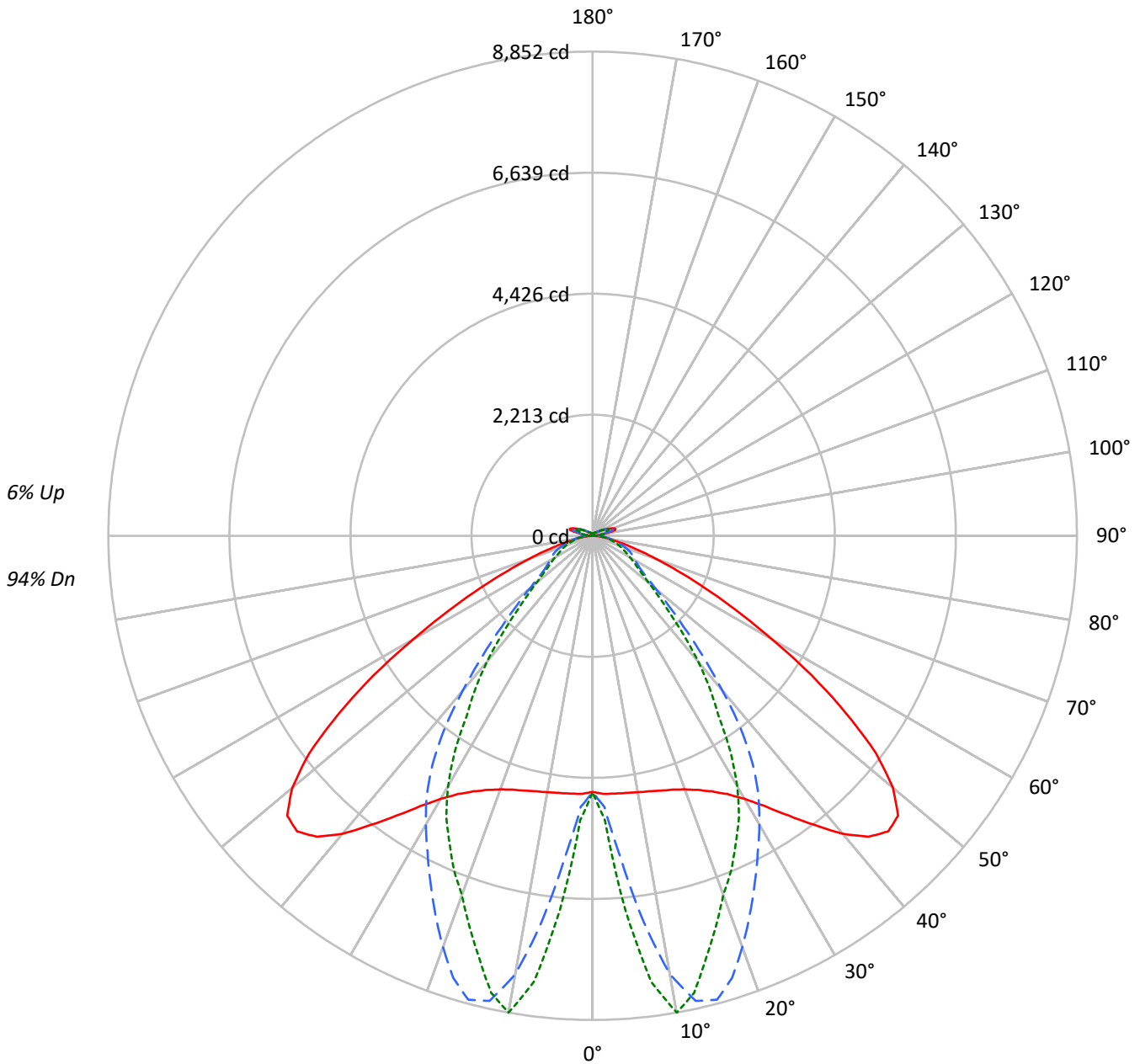
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16070.3 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
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					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	50	30	10	0		
RCR																										
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94					94			
1	109	105	101	98	106	102	99	96	97	94	92	92	90	88	87	86	84	82					82			
2	101	94	88	83	98	91	86	82	87	83	79	83	79	76	79	76	74	71					71			
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63					63			
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	65	61	57	55					55			
5	80	69	61	55	78	67	60	55	65	58	53	62	57	52	60	55	51	49					49			
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44					44			
7	70	57	50	44	68	56	49	44	54	48	43	52	47	42	51	46	42	40					40			
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36					36			
9	61	49	41	36	59	48	41	36	46	40	36	45	39	35	44	38	35	33					33			
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	35	32	30					30			

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

	0°	45°	90°
0°	8001	8001	8001
5°	8042	10063	11729
10°	8114	13874	15235
15°	8307	15114	13983
20°	8650	14023	12496
25°	9281	12612	11430
30°	10349	11356	10164
35°	12167	9939	8099
40°	14629	7569	6446
45°	16781	5157	4588
50°	17012	3537	3393
55°	14726	2784	2772
60°	11000	2605	2494
65°	7540	2613	2362
70°	4821	2520	2288
75°	2899	2333	2189
80°	1706	2050	2259
85°	821	1760	2094



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.6	3.8
10°-20°	2158.5	13.4
20°-30°	3180.7	19.8
30°-40°	3342.4	20.8
40°-50°	2557.6	15.9
50°-60°	1544.4	9.6
60°-70°	942.4	5.9
70°-80°	514.4	3.2
80°-90°	183.2	1.1
90°-100°	99.1	0.6
100°-110°	344.9	2.1
110°-120°	296.3	1.8
120°-130°	142.0	0.9
130°-140°	71.0	0.4
140°-150°	41.3	0.3
150°-160°	24.1	0.2
160°-170°	12.5	0.1
170°-180°	3.8	0.0
0°-30°	5950.8	37.0
0°-40°	9293.2	57.8
0°-60°	13395.2	83.4
0°-90°	15035.1	93.6
90°-120°	740.3	4.6
90°-150°	994.7	6.2
90°-180°	1035.0	6.4
0°-180°	16070.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4684	4684	4684	4684	4684	
5°	4732	5076	5922	6612	6867	452
15°	4824	7513	8781	8194	8001	1372
25°	5155	8720	7010	6347	6190	2409
35°	6244	6983	5107	4253	4004	3961
45°	7642	3984	2352	2070	1983	5774
55°	5652	1351	1071	993	990	4994
65°	2266	855	788	674	640	2322
75°	603	532	488	403	386	694
85°	90	165	194	177	161	111
90°	2	15	20	26	29	7
95°	21	48	72	97	112	68
105°	431	426	363	258	237	408
115°	300	300	301	298	293	300
125°	147	152	156	154	155	137
135°	85	88	91	92	92	68
145°	62	64	65	66	67	40
155°	50	51	52	52	52	23
165°	43	43	44	44	44	12
175°	39	39	39	39	39	4
180°	38	38	38	38	38	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4684.5	4684.5	4684.5	4684.5	4684.5
2.5°	4722.9	4771.1	4961.2	5158.4	5206.4
5°	4731.5	5076.2	5921.8	6612.2	6867.3
7.5°	4741.6	5570.6	7112.0	7957.3	8227.8
10°	4760.7	6195.8	8143.3	8750.2	8852.4
12.5°	4784.3	6858.1	8710.8	8688.7	8559.8
15°	4823.8	7513.2	8780.7	8193.8	8001.1
17.5°	4865.2	8067.3	8475.8	7654.9	7487.3
20°	4932.4	8478.8	8001.5	7176.1	6985.4
22.5°	5029.4	8705.0	7504.1	6743.0	6618.6
25°	5154.6	8719.6	7010.2	6346.6	6189.9
27.5°	5322.3	8517.3	6536.7	5958.3	5792.8
30°	5550.5	8130.0	6096.8	5490.1	5284.8
32.5°	5860.5	7572.6	5643.2	4924.8	4694.6
35°	6243.8	6982.8	5107.0	4253.1	4004.3
37.5°	6662.0	6327.9	4456.3	3658.2	3513.4
40°	7112.0	5653.2	3685.2	3101.6	2997.9
42.5°	7463.1	4919.6	2968.8	2577.5	2467.2
45°	7642.1	3984.5	2352.5	2070.1	1983.1
47.5°	7572.4	3093.0	1865.0	1644.8	1618.7
50°	7165.6	2283.8	1492.9	1354.9	1344.1
52.5°	6529.6	1702.2	1233.2	1147.8	1129.2
55°	5651.6	1351.1	1070.9	992.6	989.5
57.5°	4745.0	1147.8	972.1	911.4	890.3
60°	3778.0	1023.5	897.2	828.7	785.8
62.5°	2961.4	936.5	842.1	749.1	709.1
65°	2265.8	855.3	787.8	674.2	639.8
67.5°	1689.0	778.0	721.6	595.4	575.3
70°	1230.6	698.7	646.0	529.5	513.7
72.5°	877.1	619.5	570.5	467.7	450.2
75°	603.2	531.9	487.9	402.6	386.3
77.5°	407.0	442.5	406.6	343.7	336.9
80°	271.8	350.9	328.8	291.2	287.1
82.5°	164.9	254.8	259.5	236.8	225.4
85°	89.8	164.9	194.4	177.2	160.7
87.5°	35.2	91.4	134.0	120.3	113.3
90°	2.5	15.0	20.0	25.8	29.2
92.5°	7.5	19.2	31.7	45.0	49.2
95°	20.8	48.3	71.7	96.7	111.7
97.5°	112.5	122.5	138.3	163.3	171.7
100°	230.0	247.5	205.8	215.0	219.2
102.5°	365.8	360.8	263.3	238.3	234.2
105°	430.8	425.8	363.3	257.5	236.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	348.3	350.8	348.3	335.0	320.8
115°	300.0	300.0	300.8	298.3	293.3
117.5°	251.7	255.0	257.5	255.0	253.3
120°	210.8	215.8	217.5	214.2	214.2
122.5°	177.5	181.7	184.2	181.7	182.5
125°	146.7	152.5	155.8	154.2	155.0
127.5°	122.5	127.5	133.3	132.5	132.5
130°	106.7	110.0	114.2	115.0	115.0
132.5°	95.0	97.5	100.8	101.7	102.5
135°	85.0	87.5	90.8	91.7	91.7
137.5°	78.3	80.0	82.5	83.3	84.2
140°	71.7	74.2	75.8	76.7	76.7
142.5°	66.7	68.3	70.0	70.8	71.7
145°	62.5	64.2	65.0	65.8	66.7
147.5°	58.3	60.0	61.7	61.7	62.5
150°	55.8	56.7	57.5	58.3	58.3
152.5°	52.5	53.3	54.2	55.0	55.0
155°	50.0	50.8	51.7	52.5	52.5
157.5°	47.5	49.2	49.2	50.0	50.0
160°	45.8	46.7	47.5	47.5	47.5
162.5°	44.2	45.0	45.0	45.8	45.8
165°	43.3	43.3	44.2	44.2	44.2
167.5°	41.7	41.7	42.5	42.5	42.5
170°	40.8	40.8	40.8	41.7	41.7
172.5°	40.0	40.0	40.0	40.0	40.0
175°	39.2	39.2	39.2	39.2	39.2
177.5°	38.3	39.2	39.2	39.2	39.2
180°	38.3	38.3	38.3	38.3	38.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	433.3	435.0	400.8	310.8	257.5
110°	396.7	402.5	384.2	350.0	307.5



(END OF REPORT)