

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: P827110

Luminaire Tested: **OHBL-18SE-A-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827110
REPORT IS A COMBINATION OF REPORTS P826161 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-A-UNV-L840-CD-UPL18
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

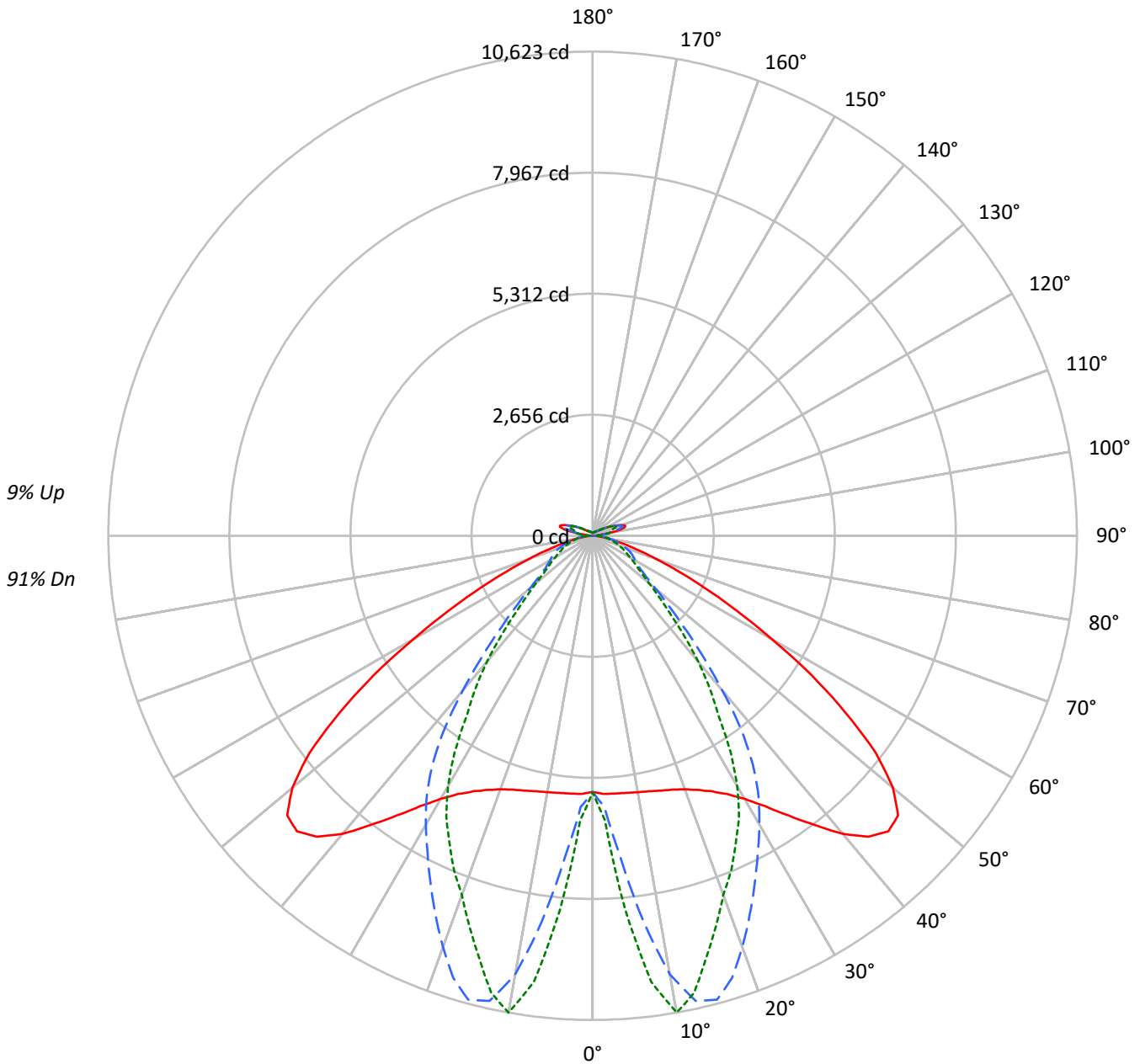
Lumens per Lamp: N/A
Luminaire Lumens: 19828.9 lumens
Efficiency: N/A
Efficacy: 169.0 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 117.3
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

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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	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	96	93	91	90	88	86	85	84	82	80																			
2	100	93	88	83	97	91	85	81	86	82	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	74	69	65	70	66	63	61																			
4	86	75	68	62	83	74	67	61	70	64	59	67	62	58	64	60	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	56	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	54	49	45	43																			
7	69	57	49	44	67	56	48	43	54	47	42	51	46	41	49	44	41	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	61	48	41	36	59	47	40	36	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9601	9601	9601
5°	9650	12076	14075
10°	9736	16649	18282
15°	9968	18136	16779
20°	10380	16828	14995
25°	11137	15134	13716
30°	12419	13627	12197
35°	14600	11927	9719
40°	17555	9083	7735
45°	20137	6188	5505
50°	20415	4245	4072
55°	17671	3341	3326
60°	13200	3126	2993
65°	9048	3136	2835
70°	5785	3024	2746
75°	3479	2799	2627
80°	2047	2460	2711
85°	986	2112	2512



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.9	3.7
10°-20°	2590.2	13.1
20°-30°	3816.9	19.2
30°-40°	4010.9	20.2
40°-50°	3069.1	15.5
50°-60°	1853.2	9.3
60°-70°	1130.9	5.7
70°-80°	617.3	3.1
80°-90°	221.1	1.1
90°-100°	171.2	0.9
100°-110°	594.6	3.0
110°-120°	510.9	2.6
120°-130°	245.3	1.2
130°-140°	122.6	0.6
140°-150°	71.2	0.4
150°-160°	41.5	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	7141.0	36.0
0°-40°	11151.9	56.2
0°-60°	16074.2	81.1
0°-90°	18043.5	91.0
90°-120°	1276.7	6.4
90°-150°	1715.8	8.7
90°-180°	1785.0	9.0
0°-180°	19828.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5621	5621	5621	5621	5621	
5°	5678	6092	7106	7935	8241	543
15°	5788	9016	10537	9832	9601	1646
25°	6186	10464	8412	7616	7428	2891
35°	7492	8379	6128	5104	4805	4753
45°	9170	4781	2823	2484	2380	6929
55°	6782	1621	1285	1191	1187	5993
65°	2719	1026	945	809	768	2786
75°	724	638	586	483	464	833
85°	108	198	233	213	193	133
90°	4	25	34	45	50	9
95°	38	82	129	167	191	120
105°	741	734	626	441	407	703
115°	513	519	518	512	511	517
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5621.4	5621.4	5621.4	5621.4	5621.4
2.5°	5667.5	5725.3	5953.4	6190.1	6247.7
5°	5677.8	6091.5	7106.1	7934.6	8240.8
7.5°	5689.9	6684.7	8534.4	9548.7	9873.4
10°	5712.8	7434.9	9772.0	10500.2	10622.9
12.5°	5741.2	8229.7	10452.9	10426.4	10271.7
15°	5788.5	9015.8	10536.8	9832.5	9601.3
17.5°	5838.2	9680.8	10170.9	9185.9	8984.7
20°	5918.9	10174.5	9601.8	8611.3	8382.5
22.5°	6035.3	10446.0	9004.9	8091.6	7942.3
25°	6185.5	10463.5	8412.2	7615.9	7427.9
27.5°	6386.8	10220.8	7844.0	7150.0	6951.4
30°	6660.6	9756.0	7316.1	6588.1	6341.7
32.5°	7032.6	9087.1	6771.8	5909.7	5633.5
35°	7492.5	8379.4	6128.4	5103.7	4805.2
37.5°	7994.4	7593.5	5347.6	4389.9	4216.1
40°	8534.4	6783.8	4422.2	3721.9	3597.5
42.5°	8955.7	5903.5	3562.6	3093.0	2960.7
45°	9170.5	4781.4	2823.0	2484.1	2379.7
47.5°	9086.9	3711.6	2238.0	1973.8	1942.4
50°	8598.7	2740.6	1791.5	1625.9	1612.9
52.5°	7835.5	2042.7	1479.8	1377.4	1355.0
55°	6781.9	1621.3	1285.1	1191.1	1187.4
57.5°	5694.0	1377.4	1166.5	1093.7	1068.4
60°	4533.6	1228.2	1076.6	994.4	943.0
62.5°	3553.7	1123.8	1010.5	898.9	850.9
65°	2718.9	1026.4	945.4	809.0	767.8
67.5°	2026.8	933.6	865.9	714.5	690.4
70°	1476.7	838.4	775.2	635.4	616.4
72.5°	1052.5	743.4	684.6	561.2	540.2
75°	723.9	638.3	585.5	483.1	463.6
77.5°	488.4	531.0	487.9	412.4	404.3
80°	326.1	421.1	394.6	349.5	344.5
82.5°	197.9	305.7	311.4	284.2	270.5
85°	107.8	197.9	233.3	212.6	192.8
87.5°	42.2	109.7	160.8	144.4	136.0
90°	4.0	25.0	34.0	45.0	50.0
92.5°	13.0	33.0	55.0	76.0	84.0
95°	38.0	82.0	129.0	167.0	191.0
97.5°	195.0	213.0	238.0	282.0	298.0
100°	402.0	422.0	354.0	371.0	377.0
102.5°	629.0	628.0	454.0	410.0	404.0
105°	741.0	734.0	626.0	441.0	407.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	602.0	606.0	594.0	578.0	553.0
115°	513.0	519.0	518.0	512.0	511.0
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	748.0	748.0	690.0	536.0	449.0
110°	685.0	693.0	663.0	603.0	534.0



(END OF REPORT)