

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: P827109

Luminaire Tested: **OHBL-18SE-A-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827109
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-L840-CD-UPL12
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

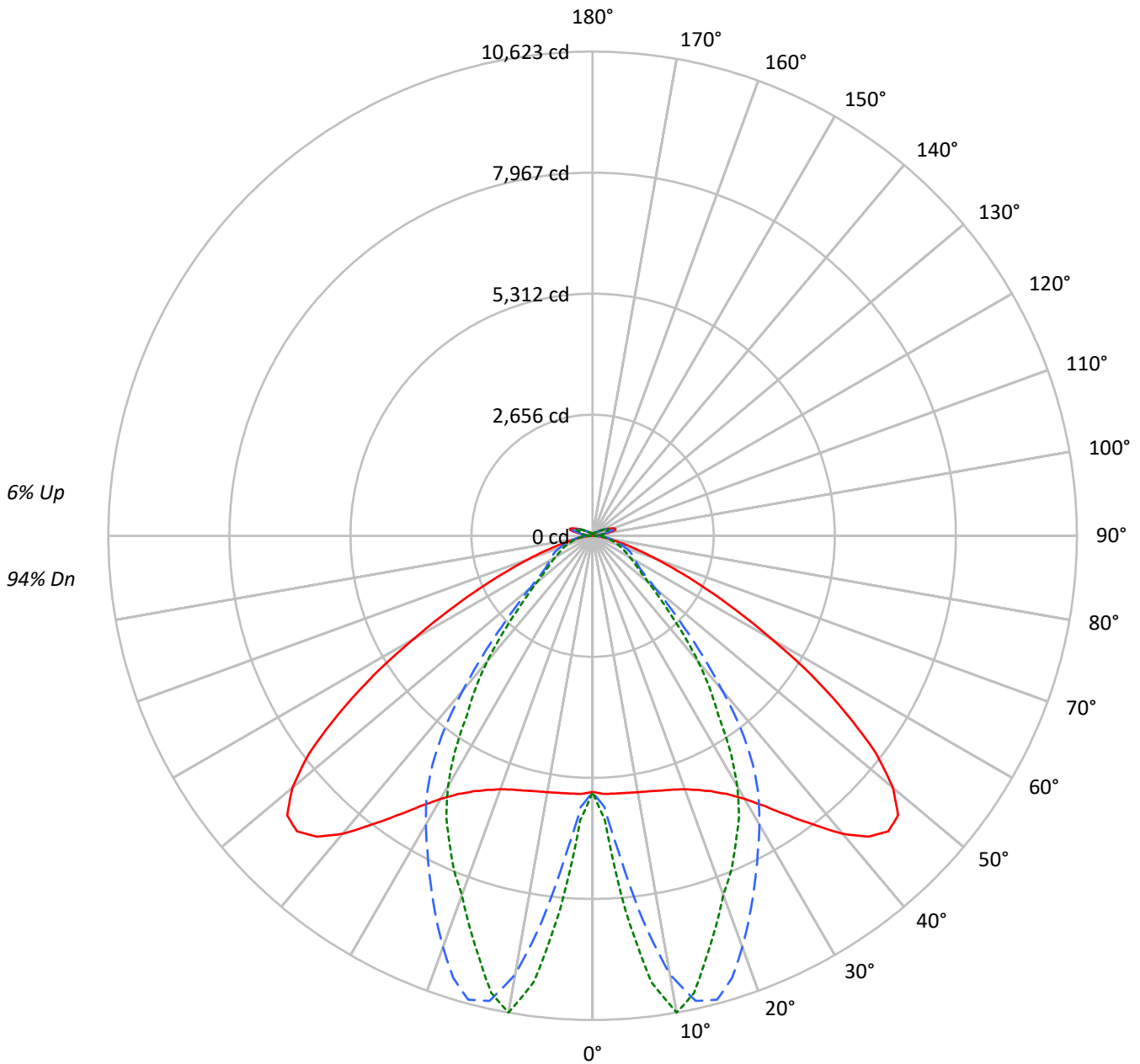
Lumens per Lamp: N/A
Luminaire Lumens: 19284.3 lumens
Efficiency: N/A
Efficacy: 170.1 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
Input Voltage (V): NR
Input Current (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					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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94								
1	109	105	101	98	106	102	99	96	97	94	92	92	90	88	87	86	84	82								
2	101	94	88	83	98	91	86	82	87	83	79	83	79	76	79	76	74	71								
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63								
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	65	61	57	55								
5	80	69	61	55	78	67	60	55	65	58	53	62	57	52	60	55	51	49								
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44								
7	70	57	50	44	68	56	49	44	54	48	43	52	47	42	51	46	42	40								
8	65	53	45	40	63	52	45	40	50	44	39	48	43	38	47	42	38	36								
9	61	49	41	36	59	48	41	36	46	40	36	45	39	35	44	38	35	33								
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	35	32	30								

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	3.8
10°-20°	2590.2	13.4
20°-30°	3816.9	19.8
30°-40°	4010.9	20.8
40°-50°	3069.1	15.9
50°-60°	1853.2	9.6
60°-70°	1130.9	5.9
70°-80°	617.3	3.2
80°-90°	219.8	1.1
90°-100°	119.0	0.6
100°-110°	413.9	2.1
110°-120°	355.5	1.8
120°-130°	170.4	0.9
130°-140°	85.2	0.4
140°-150°	49.6	0.3
150°-160°	28.9	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	7141.0	37.0
0°-40°	11151.9	57.8
0°-60°	16074.2	83.4
0°-90°	18042.2	93.6
90°-120°	888.4	4.6
90°-150°	1193.7	6.2
90°-180°	1242.0	6.4
0°-180°	19284.3	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°	3	18	24	31	35	8
95°	25	58	86	116	134	82
105°	517	511	436	309	284	489
115°	360	360	361	358	352	360
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



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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°	3.0	18.0	24.0	31.0	35.0
92.5°	9.0	23.0	38.0	54.0	59.0
95°	25.0	58.0	86.0	116.0	134.0
97.5°	135.0	147.0	166.0	196.0	206.0
100°	276.0	297.0	247.0	258.0	263.0
102.5°	439.0	433.0	316.0	286.0	281.0
105°	517.0	511.0	436.0	309.0	284.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.0	421.0	418.0	402.0	385.0
115°	360.0	360.0	361.0	358.0	352.0
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	520.0	522.0	481.0	373.0	309.0
110°	476.0	483.0	461.0	420.0	369.0



(END OF REPORT)