

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: P829661

Luminaire Tested: **OHBL-100SE-A-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-100SE-A-UNV-L740-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

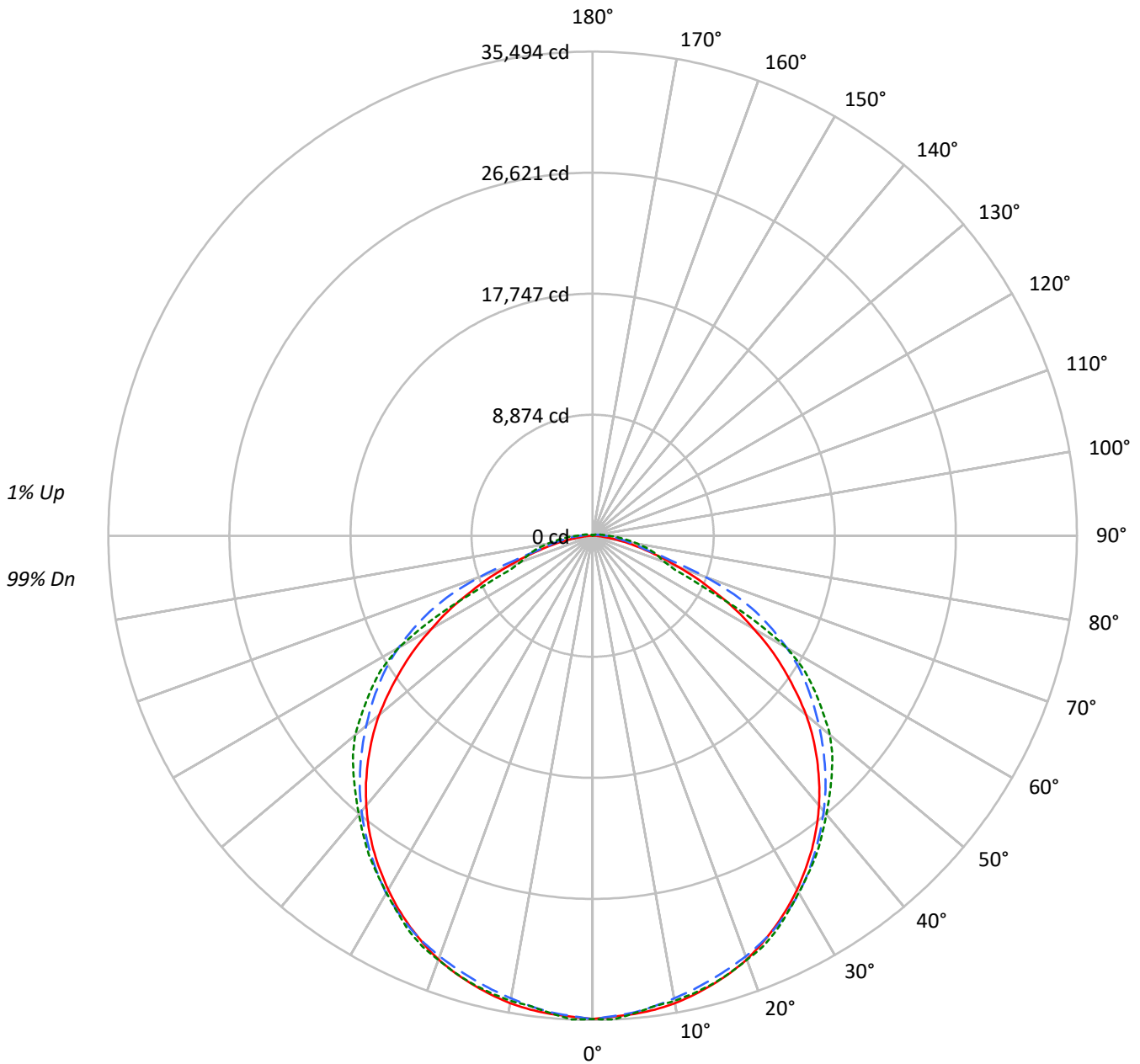
Lumens per Lamp: N/A
Luminaire Lumens: 100120.0 lumens
Efficiency: N/A
Efficacy: 169.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 590.1
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99																			
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83																			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70																			
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59																			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51																			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38																			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34																			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30																			
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56020	56020	56020
5°	55653	55206	55322
10°	55450	54370	54708
15°	55098	53745	54341
20°	54746	53351	53860
25°	54086	52954	53384
30°	53367	52329	52374
35°	52508	51336	51817
40°	51391	50311	51059
45°	49844	49125	50723
50°	47746	47775	50321
55°	44414	46447	48443
60°	40050	44503	44786
65°	34356	40895	28383
70°	27673	31925	20578
75°	20747	18952	20885
80°	14441	15758	19940
85°	8219	14438	18691



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3340.0	3.3
10°-20°	9577.6	9.6
20°-30°	14628.0	14.6
30°-40°	17748.8	17.7
40°-50°	18602.4	18.6
50°-60°	16856.6	16.8
60°-70°	11301.7	11.3
70°-80°	5074.9	5.1
80°-90°	1841.6	1.8
90°-100°	554.3	0.6
100°-110°	261.6	0.3
110°-120°	131.1	0.1
120°-130°	72.3	0.1
130°-140°	49.7	0.0
140°-150°	33.4	0.0
150°-160°	24.8	0.0
160°-170°	16.0	0.0
170°-180°	5.1	0.0
0°-30°	27545.6	27.5
0°-40°	45294.4	45.2
0°-60°	80753.4	80.7
0°-90°	98971.7	98.9
90°-120°	947.0	0.9
90°-150°	1102.4	1.1
90°-180°	1148.0	1.1
0°-180°	100120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35422	35422	35422	35422	35422	
5°	35192	35315	35069	35177	35131	###
15°	34050	33917	33676	33973	34014	9614
25°	31632	31494	31714	32006	31914	14581
35°	28037	28104	28390	28692	28580	17524
45°	23268	23648	24088	24703	24779	17925
55°	17122	17947	19171	19939	19893	15284
65°	10049	11621	13194	11135	9091	10013
75°	3954	5736	4220	4318	4599	4321
85°	681	1306	1675	2023	2120	831
90°	5	435	866	1086	1137	41
95°	5	272	594	722	743	7
105°	20	118	292	353	369	24
115°	41	62	148	190	200	38
125°	36	41	92	108	113	36
135°	46	51	56	82	87	37
145°	46	51	51	56	62	31
155°	51	56	56	56	51	24
165°	56	56	56	56	56	16
175°	56	56	51	46	46	5
180°	51	51	51	51	51	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	35422.5	35422.5	35422.5	35422.5	35422.5
2.5°	35279.1	35427.7	35243.3	35443.0	35494.2
5°	35192.1	35315.0	35069.1	35176.7	35130.6
7.5°	35033.3	35074.3	34782.3	34869.4	34777.2
10°	34797.7	34777.2	34434.0	34603.0	34623.5
12.5°	34449.4	34387.9	34080.6	34336.7	34341.8
15°	34049.9	33916.7	33676.0	33973.1	34014.0
17.5°	33588.9	33414.8	33256.0	33640.1	33578.7
20°	33051.1	32846.3	32815.5	33235.5	33081.9
22.5°	32385.3	32226.5	32298.2	32697.7	32600.4
25°	31632.4	31494.1	31714.3	32006.3	31914.1
27.5°	30838.5	30756.6	31007.5	31232.9	31053.6
30°	29967.8	29921.7	30254.6	30439.0	30213.6
32.5°	29020.3	29035.6	29353.2	29604.1	29394.2
35°	28036.9	28103.5	28390.3	28692.5	28579.8
37.5°	26956.2	27104.7	27391.5	27734.7	27616.9
40°	25814.0	26029.1	26346.7	26761.5	26654.0
42.5°	24579.6	24851.1	25260.8	25721.8	25711.6
45°	23268.5	23647.5	24087.9	24702.6	24779.4
47.5°	21906.0	22331.2	22889.4	23708.9	23826.7
50°	20425.8	20958.5	21655.1	22638.5	22710.2
52.5°	18776.6	19503.9	20425.8	21368.3	21281.2
55°	17122.3	17946.9	19171.0	19939.3	19893.2
57.5°	15473.0	16400.1	17885.4	18433.4	18428.3
60°	13629.2	14802.1	16425.7	16840.6	16430.8
62.5°	11923.6	13183.6	14868.7	14566.5	13163.1
65°	10049.0	11621.4	13193.8	11134.8	9091.2
67.5°	8384.4	10023.4	11206.6	7626.4	6530.3
70°	6709.6	8517.6	8737.8	5659.6	5582.8
72.5°	5224.3	7150.1	6028.4	4845.2	5091.1
75°	3954.0	5736.4	4220.4	4317.7	4599.4
77.5°	2883.6	4404.8	3283.1	3785.0	4015.5
80°	1982.1	3119.2	2678.7	3180.7	3339.4
82.5°	1244.6	2059.0	2146.0	2560.9	2724.8
85°	681.2	1306.1	1674.8	2023.1	2120.4
87.5°	281.7	788.8	1280.5	1562.2	1644.1
90°	5.1	435.4	865.6	1085.8	1137.0
92.5°	5.1	332.9	706.8	875.8	911.7
95°	5.1	271.5	594.1	722.2	742.7
97.5°	10.2	215.1	496.8	599.3	619.7
100°	15.4	179.3	414.9	501.9	517.3
102.5°	20.5	143.4	348.3	420.0	435.4
105°	20.5	117.8	291.9	353.4	368.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	35.9	71.7	174.1	220.2	230.5
115°	41.0	61.5	148.5	189.5	199.8
117.5°	41.0	51.2	128.0	158.8	169.0
120°	41.0	46.1	112.7	138.3	143.4
122.5°	41.0	41.0	97.3	122.9	128.0
125°	35.9	41.0	92.2	107.6	112.7
127.5°	41.0	41.0	81.9	97.3	102.4
130°	41.0	46.1	71.7	92.2	92.2
132.5°	46.1	51.2	66.6	87.1	87.1
135°	46.1	51.2	56.3	81.9	87.1
137.5°	51.2	51.2	51.2	76.8	81.9
140°	51.2	51.2	46.1	66.6	71.7
142.5°	46.1	51.2	46.1	61.5	66.6
145°	46.1	51.2	51.2	56.3	61.5
147.5°	51.2	51.2	51.2	51.2	56.3
150°	51.2	51.2	51.2	51.2	51.2
152.5°	51.2	51.2	51.2	51.2	51.2
155°	51.2	56.3	56.3	56.3	51.2
157.5°	51.2	56.3	56.3	56.3	56.3
160°	51.2	56.3	56.3	56.3	56.3
162.5°	56.3	56.3	56.3	56.3	56.3
165°	56.3	56.3	56.3	56.3	56.3
167.5°	56.3	61.5	56.3	56.3	56.3
170°	56.3	56.3	56.3	51.2	51.2
172.5°	56.3	56.3	56.3	51.2	51.2
175°	56.3	56.3	51.2	46.1	46.1
177.5°	61.5	56.3	51.2	46.1	41.0
180°	51.2	51.2	51.2	51.2	51.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	25.6	97.3	251.0	302.2	312.4
110°	30.7	81.9	210.0	256.1	266.3



(END OF REPORT)