

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: P829780

Luminaire Tested: **OHBL-12SE-NL-UNV-L735-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-NL-UNV-L735-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

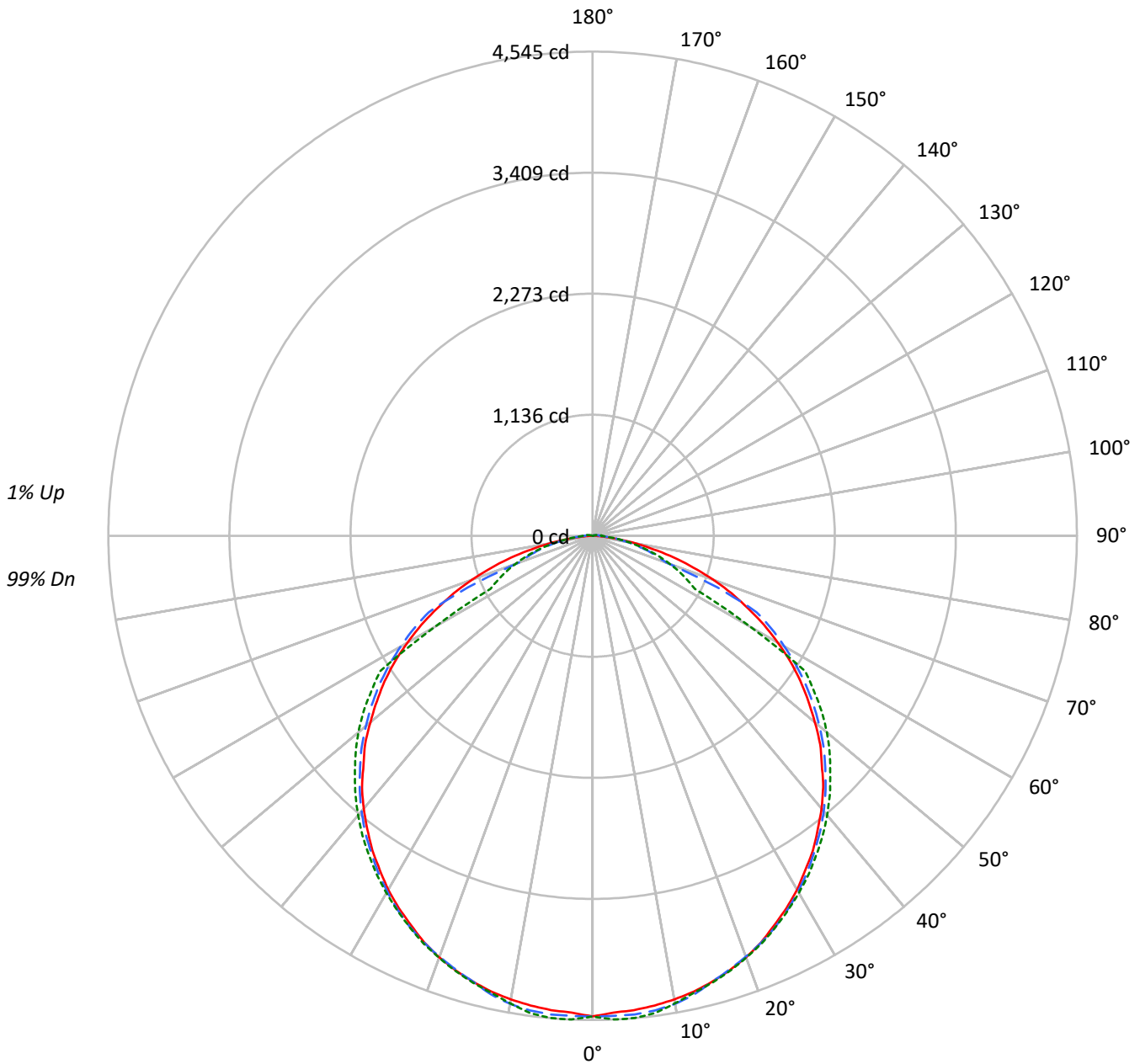
Lumens per Lamp: N/A
Luminaire Lumens: 12667.0 lumens
Efficiency: N/A
Efficacy: 181.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 70
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14678	14678	14678
5°	14597	14729	14840
10°	14601	14740	14721
15°	14598	14596	14628
20°	14578	14556	14592
25°	14479	14552	14564
30°	14412	14486	14543
35°	14318	14397	14532
40°	14195	14329	14541
45°	13990	14201	14511
50°	13779	14060	14524
55°	13516	13866	14364
60°	13063	13527	11183
65°	12359	13077	7526
70°	11431	6943	7304
75°	9970	6597	6975
80°	7668	6051	6392
85°	3871	6118	6264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.6	3.4
10°-20°	1227.3	9.7
20°-30°	1867.4	14.7
30°-40°	2270.5	17.9
40°-50°	2387.3	18.8
50°-60°	2179.9	17.2
60°-70°	1397.4	11.0
70°-80°	660.1	5.2
80°-90°	183.0	1.4
90°-100°	48.5	0.4
100°-110°	13.3	0.1
110°-120°	3.7	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3523.3	27.8
0°-40°	5793.8	45.7
0°-60°	10361.0	81.8
0°-90°	12601.6	99.5
90°-120°	65.4	0.5
90°-150°	65.4	0.5
90°-180°	65.0	0.5
0°-180°	12667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4512	4512	4512	4512	4512	
5°	4470	4487	4510	4535	4544	425
15°	4334	4367	4334	4340	4343	1224
25°	4034	4040	4054	4060	4057	1861
35°	3605	3584	3625	3669	3659	2253
45°	3041	3035	3087	3160	3154	2350
55°	2383	2365	2445	2526	2532	2125
65°	1606	1606	1699	974	978	1592
75°	793	808	525	553	555	836
85°	104	131	164	177	168	153
90°	0	44	73	86	85	5
95°	2	23	52	70	70	1
105°	4	9	13	13	12	4
115°	4	6	8	6	1	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4511.7	4511.7	4511.7	4511.7	4511.7
2.5°	4480.0	4495.1	4511.7	4533.0	4544.8
5°	4469.7	4487.1	4510.1	4534.6	4544.1
7.5°	4447.5	4472.0	4494.2	4511.7	4517.2
10°	4419.8	4449.1	4461.8	4460.2	4456.3
12.5°	4382.6	4413.5	4409.6	4391.3	4394.5
15°	4334.3	4366.7	4333.6	4339.8	4343.0
17.5°	4277.3	4309.0	4270.2	4282.8	4283.7
20°	4210.8	4234.6	4204.5	4214.8	4214.8
22.5°	4130.9	4147.5	4134.8	4142.0	4143.5
25°	4033.5	4039.8	4054.0	4060.4	4057.2
27.5°	3940.1	3932.2	3959.9	3974.9	3966.9
30°	3836.4	3823.7	3856.1	3880.7	3871.2
32.5°	3717.6	3709.7	3746.9	3776.2	3770.7
35°	3605.2	3583.8	3625.0	3669.3	3659.0
37.5°	3472.2	3459.5	3506.2	3553.0	3547.5
40°	3342.4	3321.0	3374.0	3429.4	3423.9
42.5°	3203.1	3177.7	3235.5	3302.0	3295.7
45°	3040.7	3035.2	3086.6	3159.5	3153.9
47.5°	2896.7	2869.0	2941.0	3011.5	3017.8
50°	2722.5	2712.2	2778.0	2863.4	2869.7
52.5°	2552.3	2545.2	2614.0	2700.3	2711.4
55°	2382.9	2364.7	2444.6	2526.2	2532.5
57.5°	2201.6	2182.6	2264.2	2352.8	2366.3
60°	2007.6	1989.4	2078.9	2161.2	1718.7
62.5°	1813.7	1801.0	1894.5	1341.9	1081.5
65°	1605.5	1605.5	1698.8	974.5	977.7
67.5°	1410.8	1398.1	1266.7	875.5	875.5
70°	1201.7	1206.5	729.9	767.2	767.9
72.5°	991.9	1009.4	630.2	660.2	661.8
75°	793.2	808.3	524.8	552.6	554.9
77.5°	582.7	448.1	421.9	443.4	444.1
80°	409.3	282.6	323.0	343.6	341.2
82.5°	239.0	197.9	236.7	251.8	250.9
85°	103.7	131.4	163.9	177.4	167.8
87.5°	33.2	81.6	102.1	110.0	109.2
90°	0.0	44.3	72.8	86.2	84.7
92.5°	0.0	34.8	63.4	79.2	80.0
95°	2.3	23.0	52.3	70.5	70.5
97.5°	1.6	16.6	37.2	55.4	57.0
100°	1.6	13.4	24.6	39.6	40.4
102.5°	3.9	11.1	15.0	25.3	26.2
105°	3.9	8.7	12.7	12.7	11.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.8	6.4	8.7	6.4	0.8
115°	3.9	5.5	7.9	5.5	0.8
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.9	7.9	11.1	7.1	2.3
110°	4.8	7.1	9.5	6.4	0.8



(END OF REPORT)