

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: P829784

Luminaire Tested: **OHBL-12SE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829784
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-L835-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

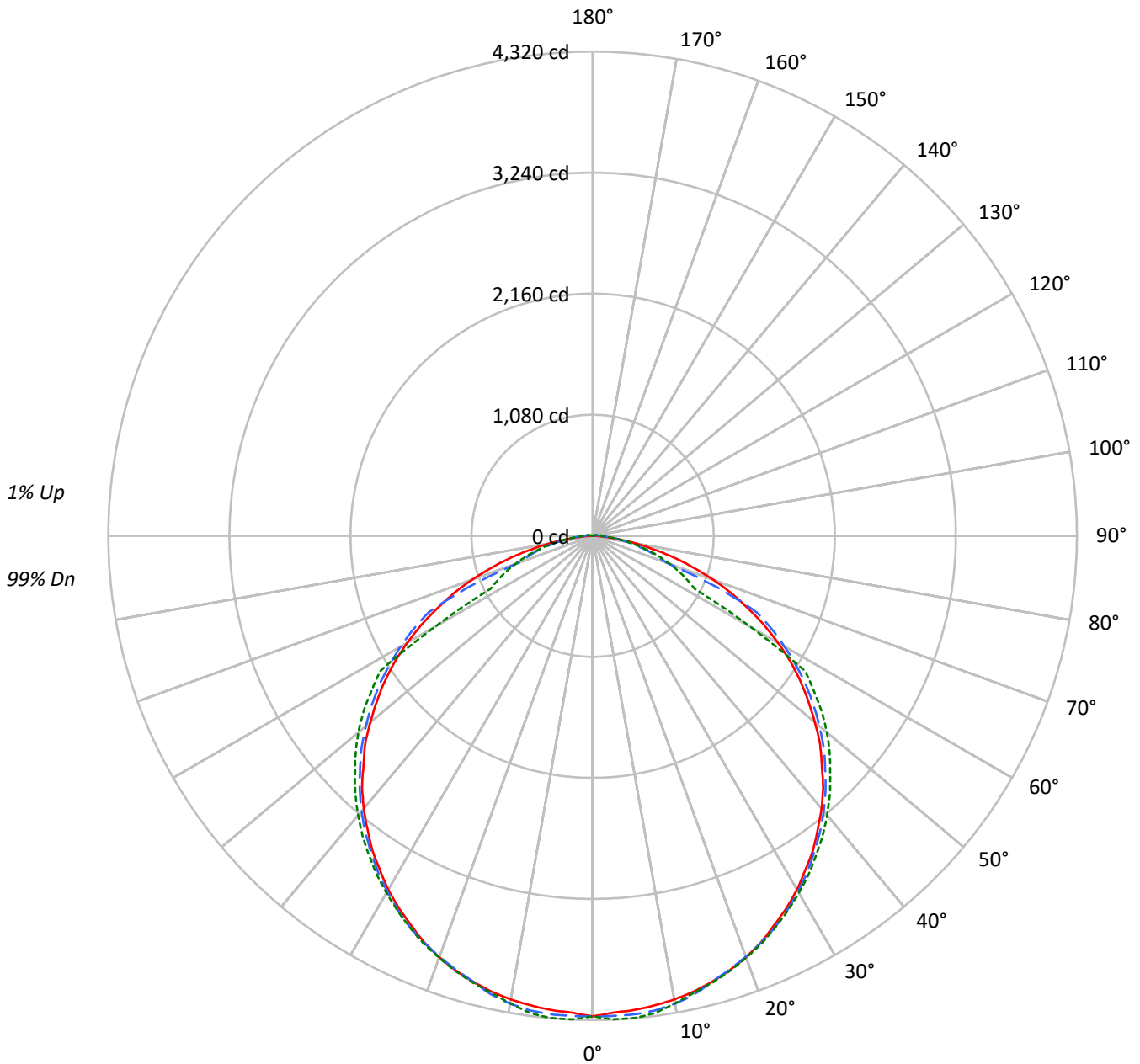
Lumens per Lamp: N/A
Luminaire Lumens: 12039.0 lumens
Efficiency: N/A
Efficacy: 172.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

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°	13950	13950	13950
5°	13873	13999	14104
10°	13877	14009	13991
15°	13874	13872	13902
20°	13856	13835	13869
25°	13761	13831	13842
30°	13697	13768	13822
35°	13609	13683	13812
40°	13491	13619	13820
45°	13297	13497	13792
50°	13096	13363	13805
55°	12845	13178	13652
60°	12415	12856	10629
65°	11746	12429	7153
70°	10865	6599	6942
75°	9476	6270	6629
80°	7288	5752	6076
85°	3677	5812	5954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	3.4
10°-20°	1166.4	9.7
20°-30°	1774.8	14.7
30°-40°	2157.9	17.9
40°-50°	2269.0	18.8
50°-60°	2071.8	17.2
60°-70°	1328.1	11.0
70°-80°	627.4	5.2
80°-90°	174.0	1.4
90°-100°	46.1	0.4
100°-110°	12.6	0.1
110°-120°	3.5	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°	3348.6	27.8
0°-40°	5506.5	45.7
0°-60°	9847.3	81.8
0°-90°	11976.8	99.5
90°-120°	62.2	0.5
90°-150°	62.2	0.5
90°-180°	62.0	0.5
0°-180°	12039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4288	4288	4288	4288	4288	
5°	4248	4265	4286	4310	4319	404
15°	4119	4150	4119	4125	4128	1163
25°	3834	3840	3853	3859	3856	1769
35°	3426	3406	3445	3487	3478	2141
45°	2890	2885	2934	3003	2998	2234
55°	2265	2247	2323	2401	2407	2020
65°	1526	1526	1615	926	929	1513
75°	754	768	499	525	527	795
85°	98	125	156	169	160	146
90°	0	42	69	82	80	4
95°	2	22	50	67	67	1
105°	4	8	12	12	11	4
115°	4	5	8	5	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°	4288.0	4288.0	4288.0	4288.0	4288.0
2.5°	4257.9	4272.2	4288.0	4308.3	4319.5
5°	4248.1	4264.6	4286.5	4309.8	4318.8
7.5°	4227.0	4250.3	4271.4	4288.0	4293.2
10°	4200.7	4228.6	4240.6	4239.1	4235.3
12.5°	4165.3	4194.7	4191.0	4173.6	4176.6
15°	4119.4	4150.3	4118.7	4124.7	4127.7
17.5°	4065.3	4095.4	4058.5	4070.5	4071.3
20°	4002.1	4024.6	3996.0	4005.8	4005.8
22.5°	3926.1	3941.9	3929.8	3936.6	3938.1
25°	3833.5	3839.5	3853.0	3859.1	3856.1
27.5°	3744.8	3737.2	3763.6	3777.8	3770.3
30°	3646.2	3634.1	3665.0	3688.3	3679.3
32.5°	3533.3	3525.8	3561.2	3589.0	3583.7
35°	3426.5	3406.2	3445.3	3487.4	3477.6
37.5°	3300.0	3288.0	3332.4	3376.8	3371.6
40°	3176.7	3156.3	3206.8	3259.4	3254.2
42.5°	3044.3	3020.1	3075.1	3138.3	3132.3
45°	2890.0	2884.7	2933.6	3002.8	2997.6
47.5°	2753.1	2726.7	2795.2	2862.2	2868.2
50°	2587.5	2577.8	2640.2	2721.5	2727.5
52.5°	2425.8	2419.0	2484.4	2566.5	2577.0
55°	2264.7	2247.4	2323.4	2400.9	2407.0
57.5°	2092.5	2074.4	2151.9	2236.2	2248.9
60°	1908.1	1890.8	1975.8	2054.1	1633.5
62.5°	1723.7	1711.7	1800.5	1275.3	1027.8
65°	1525.9	1525.9	1614.6	926.2	929.2
67.5°	1340.8	1328.8	1203.9	832.1	832.1
70°	1142.2	1146.7	693.7	729.1	729.8
72.5°	942.8	959.3	599.0	627.5	629.0
75°	753.9	768.2	498.8	525.2	527.4
77.5°	553.8	425.9	401.0	421.4	422.1
80°	389.0	268.6	307.0	326.5	324.3
82.5°	227.2	188.1	225.0	239.3	238.5
85°	98.5	124.9	155.7	168.6	159.5
87.5°	31.5	77.5	97.0	104.6	103.8
90°	0.0	42.1	69.2	82.0	80.5
92.5°	0.0	33.1	60.2	75.3	76.0
95°	2.2	21.8	49.7	67.0	67.0
97.5°	1.5	15.8	35.4	52.7	54.2
100°	1.5	12.7	23.3	37.6	38.4
102.5°	3.7	10.5	14.3	24.1	24.9
105°	3.7	8.3	12.0	12.0	11.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.5	6.1	8.3	6.1	0.7
115°	3.7	5.3	7.5	5.3	0.7
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°	3.7	7.5	10.5	6.8	2.2
110°	4.5	6.8	9.0	6.1	0.7



(END OF REPORT)