

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: P830144

Luminaire Tested: **OHBL-24SE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830144
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-24SE-NL-UNV-L835-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

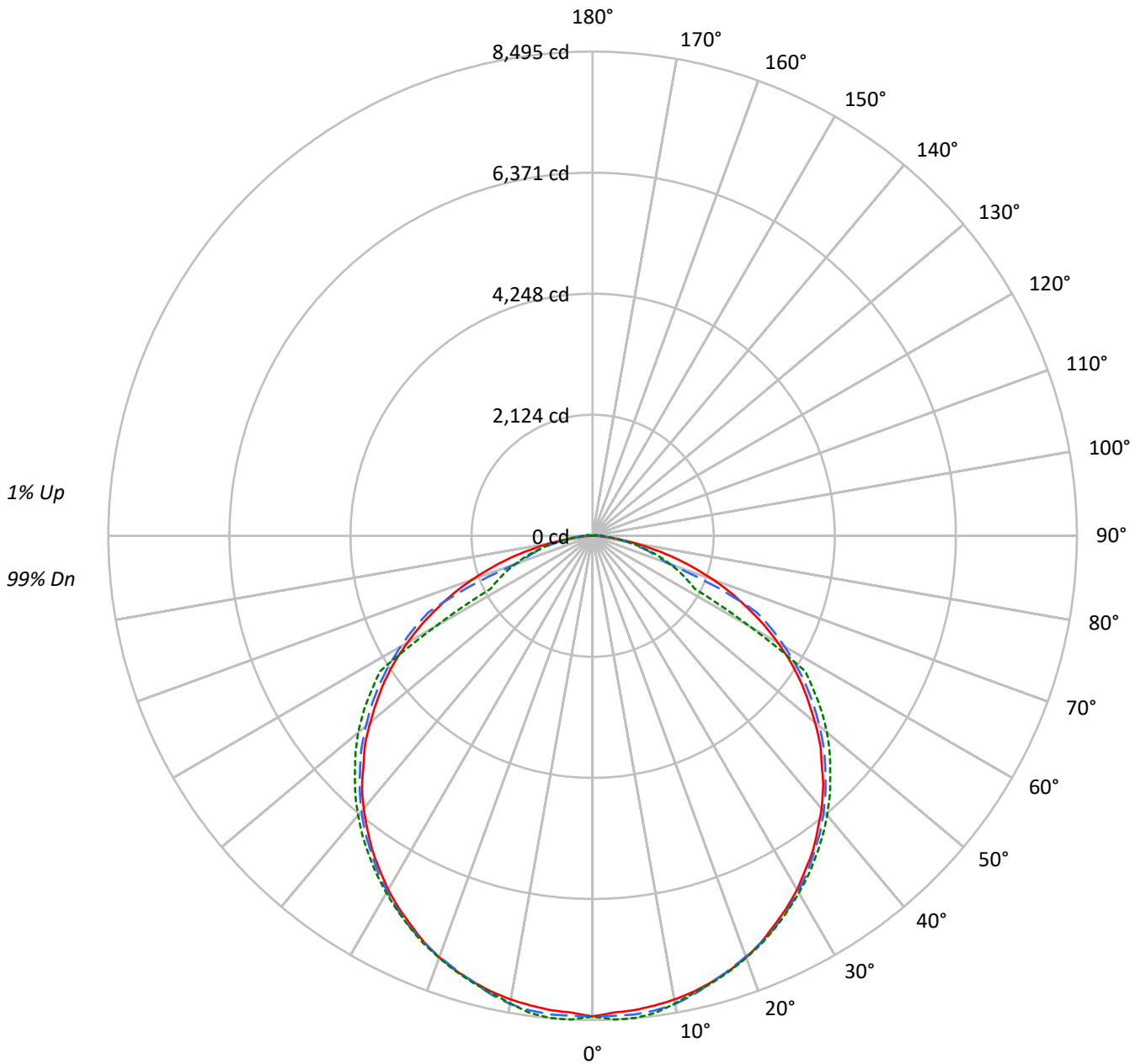
Lumens per Lamp: N/A
Luminaire Lumens: 23677.0 lumens
Efficiency: N/A
Efficacy: 171.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 138
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

TEST NUMBER: P830144

CATALOG NUMBER: OHBL-24SE-NL-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830144

CATALOG NUMBER: OHBL-24SE-NL-UNV-L835-CD

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°	14404	14404	14404
5°	14324	14454	14563
10°	14328	14464	14446
15°	14326	14323	14354
20°	14306	14285	14319
25°	14208	14281	14292
30°	14143	14216	14271
35°	14051	14128	14261
40°	13930	14062	14269
45°	13729	13936	14240
50°	13522	13797	14253
55°	13263	13607	14096
60°	12819	13274	10974
65°	12128	12833	7386
70°	11218	6813	7168
75°	9785	6474	6845
80°	7524	5939	6273
85°	3798	6003	6146



TEST NUMBER: P830144

CATALOG NUMBER: OHBL-24SE-NL-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.2	3.4
10°-20°	2294.0	9.7
20°-30°	3490.5	14.7
30°-40°	4244.0	17.9
40°-50°	4462.3	18.8
50°-60°	4074.6	17.2
60°-70°	2612.0	11.0
70°-80°	1233.9	5.2
80°-90°	342.1	1.4
90°-100°	90.6	0.4
100°-110°	24.8	0.1
110°-120°	6.9	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°	6585.7	27.8
0°-40°	10829.7	45.7
0°-60°	19366.6	81.8
0°-90°	23554.7	99.5
90°-120°	122.3	0.5
90°-150°	122.3	0.5
90°-180°	122.0	0.5
0°-180°	23677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8433	8433	8433	8433	8433	
5°	8355	8387	8430	8476	8494	795
15°	8102	8162	8100	8112	8118	2287
25°	7539	7551	7578	7590	7584	3479
35°	6739	6699	6776	6859	6839	4211
45°	5684	5673	5770	5906	5895	4393
55°	4454	4420	4570	4722	4734	3972
65°	3001	3001	3175	1822	1828	2975
75°	1483	1511	981	1033	1037	1563
85°	194	246	306	332	314	286
90°	0	83	136	161	158	8
95°	4	43	98	132	132	2
105°	7	16	24	24	22	7
115°	7	10	15	10	1	5
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



TEST NUMBER: P830144

CATALOG NUMBER: OHBL-24SE-NL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8433.1	8433.1	8433.1	8433.1	8433.1
2.5°	8373.9	8402.1	8433.1	8473.1	8495.2
5°	8354.6	8387.2	8430.2	8476.1	8493.8
7.5°	8313.3	8359.0	8400.6	8433.1	8443.5
10°	8261.4	8316.3	8339.9	8336.9	8329.6
12.5°	8191.9	8249.7	8242.3	8208.2	8214.1
15°	8101.6	8162.3	8100.2	8112.0	8117.9
17.5°	7995.1	8054.3	7981.8	8005.4	8007.0
20°	7870.9	7915.2	7859.0	7878.2	7878.2
22.5°	7721.4	7752.4	7728.8	7742.1	7745.1
25°	7539.4	7551.1	7577.7	7589.7	7583.7
27.5°	7364.8	7350.0	7401.8	7429.9	7415.0
30°	7170.9	7147.2	7207.9	7253.8	7236.1
32.5°	6948.9	6934.2	7003.7	7058.4	7048.1
35°	6738.8	6698.9	6775.8	6858.7	6839.4
37.5°	6490.2	6466.5	6553.8	6641.2	6630.9
40°	6247.5	6207.6	6306.7	6410.3	6399.9
42.5°	5987.1	5939.7	6047.8	6172.1	6160.2
45°	5683.7	5673.3	5769.5	5905.7	5895.3
47.5°	5414.5	5362.7	5497.2	5629.0	5640.9
50°	5088.8	5069.7	5192.5	5352.3	5364.1
52.5°	4770.8	4757.5	4886.1	5047.4	5068.1
55°	4454.0	4420.0	4569.5	4721.9	4733.8
57.5°	4115.3	4079.7	4232.2	4397.9	4423.0
60°	3752.6	3718.6	3885.8	4039.8	3212.6
62.5°	3390.1	3366.4	3541.1	2508.2	2021.5
65°	3000.9	3000.9	3175.4	1821.5	1827.5
67.5°	2637.0	2613.3	2367.7	1636.5	1636.5
70°	2246.3	2255.2	1364.2	1434.0	1435.4
72.5°	1854.1	1886.7	1178.0	1234.1	1237.0
75°	1482.7	1510.9	981.0	1032.9	1037.3
77.5°	1089.1	837.5	788.7	828.8	830.2
80°	765.0	528.3	603.8	642.2	637.8
82.5°	446.8	369.9	442.4	470.6	469.1
85°	193.8	245.7	306.3	331.5	313.6
87.5°	62.0	152.4	190.8	205.7	204.1
90°	0.0	82.9	136.1	161.2	158.4
92.5°	0.0	65.0	118.4	148.0	149.5
95°	4.4	42.9	97.8	131.8	131.8
97.5°	3.0	31.0	69.6	103.6	106.5
100°	3.0	25.1	45.9	73.9	75.5
102.5°	7.4	20.7	28.0	47.3	48.9
105°	7.4	16.3	23.7	23.7	22.2



TEST NUMBER: P830144

CATALOG NUMBER: OHBL-24SE-NL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.9	11.9	16.3	11.9	1.4
115°	7.4	10.3	14.7	10.3	1.4
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°	7.4	14.7	20.7	13.3	4.4
110°	8.9	13.3	17.7	11.9	1.4



(END OF REPORT)