

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: P829294

Luminaire Tested: **OHB-24SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-24SE-W-UNV-L850-CD
Description: 24000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

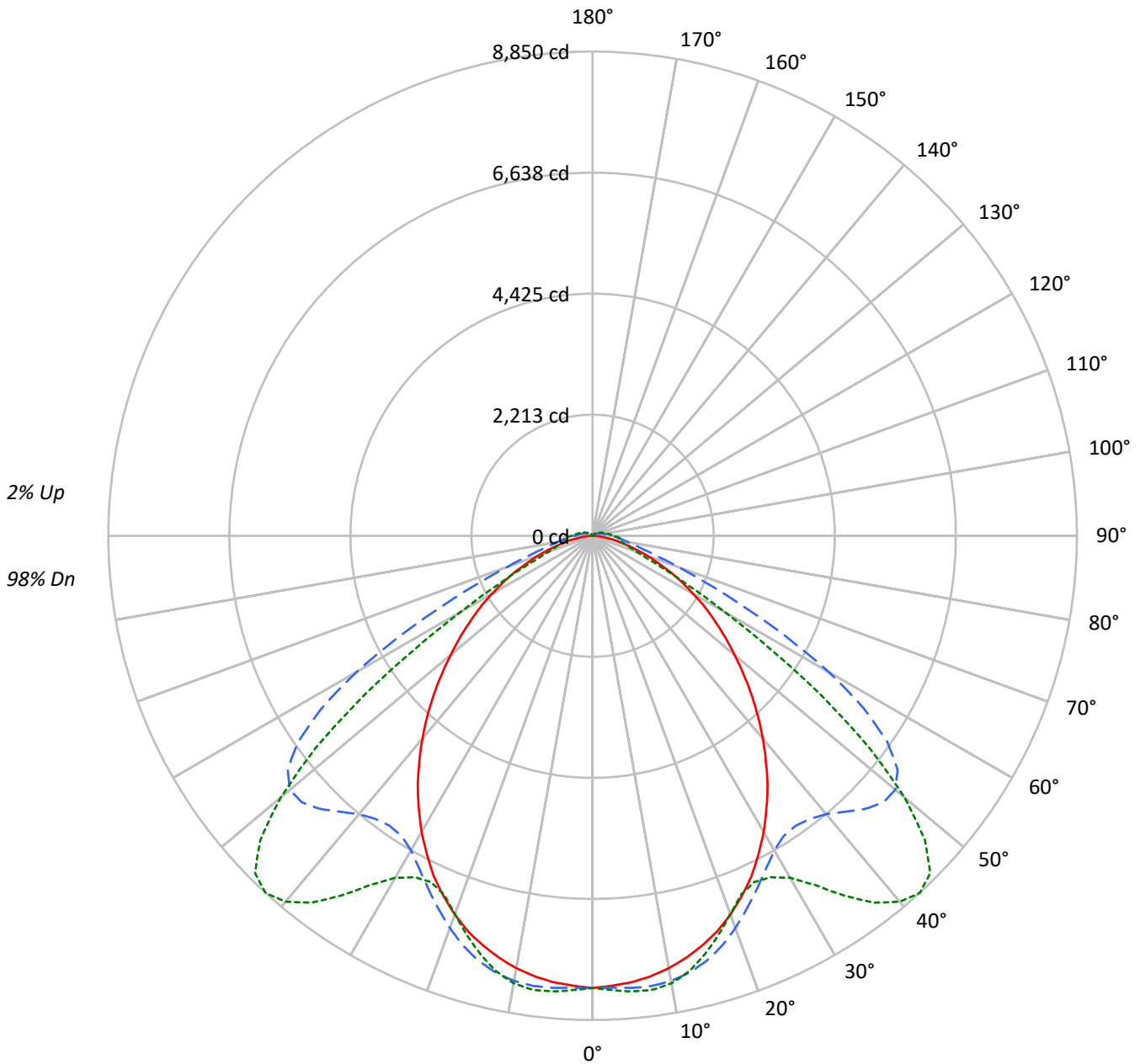
Lumens per Lamp: N/A
Luminaire Lumens: 24751.1 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.6
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	110	110	110	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27614	27614	27614
5°	27257	27504	27793
10°	26816	27392	27691
15°	26194	26869	26671
20°	25381	25876	25234
25°	24330	24693	24595
30°	22969	23796	26314
35°	21434	24159	30600
40°	19676	26074	35129
45°	17848	29460	37462
50°	15952	32429	34542
55°	14168	32217	26103
60°	12358	27079	15742
65°	10458	18544	9367
70°	8337	11857	6600
75°	6164	8365	5900
80°	4217	7169	6261
85°	2583	7530	8707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.9	3.2
10°-20°	2236.9	9.0
20°-30°	3273.3	13.2
30°-40°	4251.1	17.2
40°-50°	5191.1	21.0
50°-60°	4571.6	18.5
60°-70°	2382.3	9.6
70°-80°	1021.6	4.1
80°-90°	490.6	2.0
90°-100°	230.5	0.9
100°-110°	143.3	0.6
110°-120°	84.7	0.3
120°-130°	46.1	0.2
130°-140°	23.1	0.1
140°-150°	11.1	0.0
150°-160°	3.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6300.1	25.5
0°-40°	10551.2	42.6
0°-60°	20313.9	82.1
0°-90°	24208.4	97.8
90°-120°	458.5	1.9
90°-150°	538.8	2.2
90°-180°	543.0	2.2
0°-180°	24751.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8266	8266	8266	8266	8266	
5°	8190	8252	8297	8370	8361	777
15°	7749	7967	8043	7983	7919	2182
25°	6866	7234	7111	6977	6984	3151
35°	5573	6162	6470	7546	8029	3474
45°	4104	5163	7057	8545	8723	3164
55°	2732	4523	6572	5762	5122	2452
65°	1568	3134	3009	1673	1439	1551
75°	631	1466	967	662	628	688
85°	134	523	492	482	487	149
90°	2	189	325	371	380	9
95°	4	111	259	303	312	3
105°	7	62	168	202	205	8
115°	11	36	103	127	130	11
125°	12	18	61	78	80	11
135°	11	11	28	48	50	8
145°	14	11	12	23	27	8
155°	14	14	11	11	11	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8266.4	8266.4	8266.4	8266.4	8266.4
2.5°	8230.7	8266.4	8268.2	8318.1	8312.8
5°	8189.7	8252.1	8296.7	8369.8	8360.9
7.5°	8121.9	8220.0	8298.5	8378.7	8371.6
10°	8025.6	8159.4	8262.8	8328.8	8307.4
12.5°	7900.8	8077.3	8179.0	8193.3	8152.2
15°	7749.2	7966.8	8043.4	7982.8	7918.6
17.5°	7578.0	7833.0	7859.8	7727.8	7647.5
20°	7363.9	7654.7	7627.9	7446.0	7356.8
22.5°	7126.7	7458.5	7372.9	7182.0	7096.4
25°	6866.4	7233.8	7110.7	6976.9	6984.1
27.5°	6561.4	6978.7	6859.2	6919.9	7034.0
30°	6251.1	6711.2	6638.1	6991.2	7215.9
32.5°	5910.4	6436.5	6502.5	7199.9	7567.3
35°	5573.3	6161.9	6470.4	7545.9	8029.2
37.5°	5200.6	5883.7	6522.1	7945.4	8451.9
40°	4838.6	5612.6	6639.9	8303.8	8731.9
42.5°	4469.4	5370.0	6837.8	8516.1	8849.6
45°	4103.8	5163.1	7057.2	8544.6	8723.0
47.5°	3738.2	4988.4	7208.8	8318.1	8236.1
50°	3385.0	4833.2	7219.5	7774.1	7438.9
52.5°	3055.1	4690.5	7023.3	6907.4	6386.6
55°	2732.3	4522.9	6572.1	5762.4	5122.1
57.5°	2438.0	4291.0	5876.5	4531.8	3832.7
60°	2125.9	3977.1	4977.7	3315.5	2764.4
62.5°	1838.8	3586.6	3970.0	2307.8	1986.8
65°	1567.7	3133.6	3008.7	1672.9	1439.3
67.5°	1280.5	2664.5	2220.4	1219.9	1070.1
70°	1055.8	2229.3	1653.3	948.8	861.4
72.5°	825.7	1815.6	1235.9	770.5	722.3
75°	631.3	1466.0	966.6	661.7	627.8
77.5°	465.5	1159.3	777.6	585.0	552.9
80°	326.4	913.1	651.0	522.6	510.1
82.5°	219.4	706.3	554.7	497.6	499.4
85°	133.8	522.6	492.2	481.5	486.9
87.5°	64.2	371.0	422.7	438.7	444.1
90°	1.8	189.0	324.6	371.0	379.9
92.5°	0.0	144.5	285.4	331.7	340.6
95°	3.6	110.6	258.6	303.2	312.1
97.5°	3.6	91.0	231.9	278.2	283.6
100°	5.4	78.5	206.9	251.5	256.8
102.5°	5.4	69.6	185.5	224.7	228.3
105°	7.1	62.4	167.6	201.5	205.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.7	42.8	117.7	142.7	146.2
115°	10.7	35.7	103.4	126.6	130.2
117.5°	12.5	32.1	91.0	112.4	114.1
120°	12.5	26.8	78.5	99.9	101.7
122.5°	12.5	21.4	69.6	89.2	91.0
125°	12.5	17.8	60.6	78.5	80.3
127.5°	10.7	12.5	51.7	69.6	71.3
130°	10.7	10.7	42.8	60.6	64.2
132.5°	10.7	10.7	35.7	53.5	57.1
135°	10.7	10.7	28.5	48.2	49.9
137.5°	10.7	10.7	23.2	41.0	44.6
140°	10.7	10.7	17.8	35.7	37.5
142.5°	12.5	10.7	16.1	30.3	32.1
145°	14.3	10.7	12.5	23.2	26.8
147.5°	14.3	12.5	12.5	19.6	21.4
150°	14.3	14.3	10.7	14.3	17.8
152.5°	14.3	14.3	10.7	10.7	14.3
155°	14.3	14.3	10.7	10.7	10.7
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°	8.9	55.3	149.8	180.1	183.7
110°	8.9	48.2	132.0	160.5	164.1



(END OF REPORT)