

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: P829713

Luminaire Tested: **OHBL-100SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829713
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-100SE-NL-UNV-L840-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

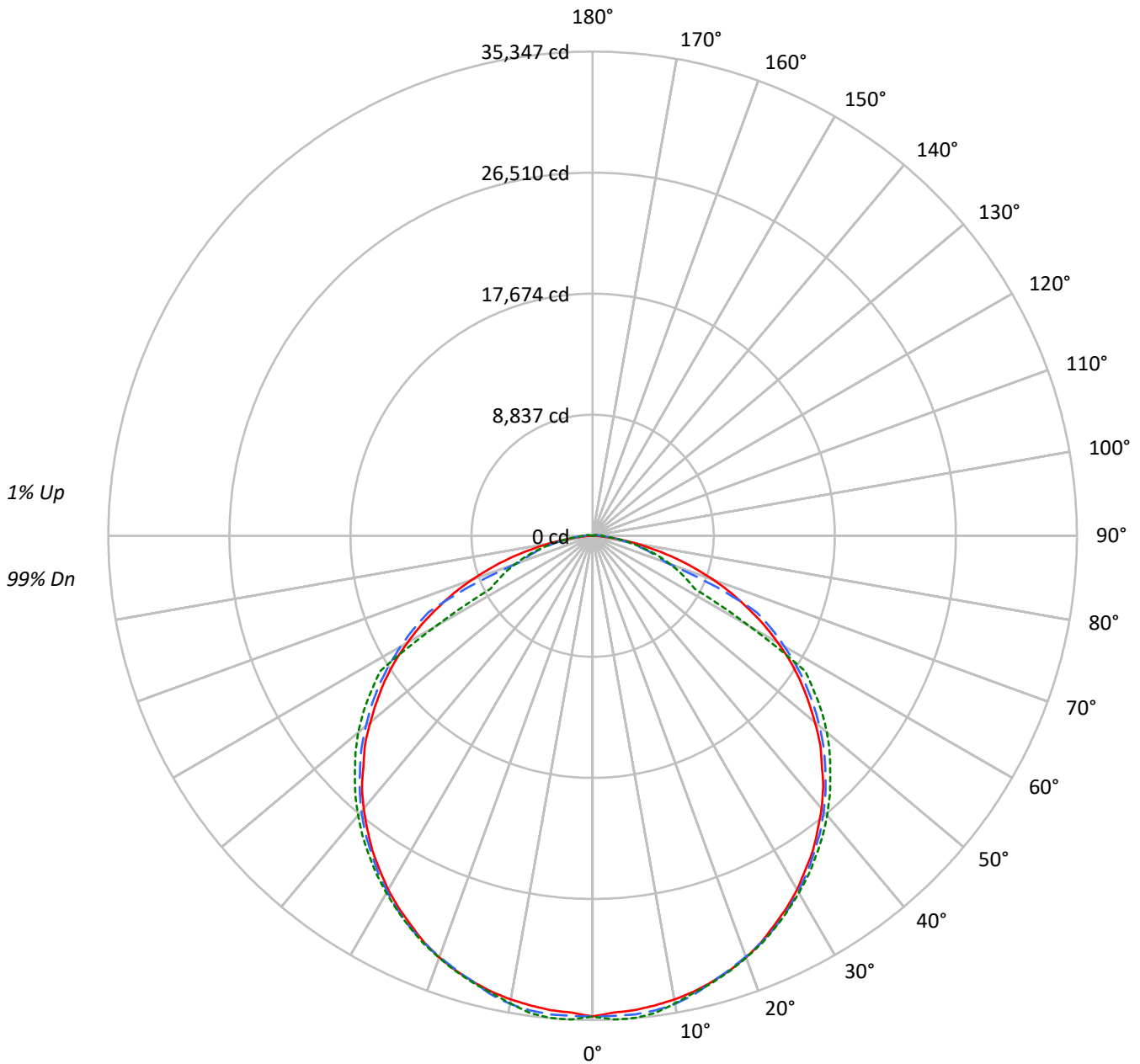
Lumens per Lamp: N/A
Luminaire Lumens: 98516.0 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 590.1
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: P829713

CATALOG NUMBER: OHBL-100SE-NL-UNV-L840-CD

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°	55492	55492	55492
5°	55186	55685	56105
10°	55201	55725	55656
15°	55191	55182	55302
20°	55116	55033	55168
25°	54740	55018	55061
30°	54486	54767	54981
35°	54133	54430	54941
40°	53665	54174	54975
45°	52892	53690	54861
50°	52094	53156	54912
55°	51098	52422	54308
60°	49386	51139	42279
65°	46725	49442	28454
70°	43217	26247	27615
75°	37696	24942	26372
80°	28989	22880	24168
85°	14631	23124	23680



TEST NUMBER: P829713

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3333.6	3.4
10°-20°	9544.9	9.7
20°-30°	14523.4	14.7
30°-40°	17658.4	17.9
40°-50°	18567.0	18.8
50°-60°	16953.9	17.2
60°-70°	10868.3	11.0
70°-80°	5134.0	5.2
80°-90°	1423.6	1.4
90°-100°	377.0	0.4
100°-110°	103.2	0.1
110°-120°	28.6	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°	27401.9	27.8
0°-40°	45060.3	45.7
0°-60°	80581.2	81.8
0°-90°	98007.1	99.5
90°-120°	508.9	0.5
90°-150°	508.9	0.5
90°-180°	509.0	0.5
0°-180°	98516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35089	35089	35089	35089	35089	
5°	34762	34898	35076	35268	35341	###
15°	33710	33962	33704	33753	33777	9517
25°	31370	31419	31530	31579	31554	14475
35°	28039	27873	28193	28538	28458	17523
45°	23649	23606	24006	24572	24529	18279
55°	18532	18391	19013	19647	19696	16528
65°	12486	12486	13212	7579	7604	12379
75°	6169	6286	4082	4298	4316	6503
85°	806	1022	1274	1379	1305	1192
90°	0	345	566	671	659	35
95°	18	179	407	548	548	10
105°	31	68	98	98	93	31
115°	31	43	61	43	6	22
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: P829713

CATALOG NUMBER: OHBL-100SE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	35088.9	35088.9	35088.9	35088.9	35088.9
2.5°	34842.5	34959.8	35088.9	35255.1	35347.0
5°	34762.3	34897.9	35076.5	35267.5	35341.1
7.5°	34590.2	34780.5	34953.3	35088.9	35131.9
10°	34374.4	34602.6	34701.0	34688.6	34658.0
12.5°	34085.0	34325.5	34294.9	34152.8	34177.6
15°	33709.5	33961.8	33703.7	33752.6	33777.3
17.5°	33266.3	33512.7	33210.9	33309.3	33315.8
20°	32749.3	32933.8	32699.8	32780.0	32780.0
22.5°	32127.5	32256.5	32158.1	32213.5	32225.9
25°	31370.0	31418.9	31529.7	31579.3	31554.5
27.5°	30643.8	30581.9	30797.7	30914.4	30852.4
30°	29836.8	29738.4	29990.7	30181.7	30108.0
32.5°	28913.2	28851.9	29141.3	29368.8	29325.8
35°	28039.0	27872.8	28192.9	28537.7	28457.5
37.5°	27004.5	26906.1	27269.2	27632.9	27589.9
40°	25994.8	25828.6	26241.2	26672.1	26629.1
42.5°	24911.4	24713.9	25163.7	25681.2	25631.7
45°	23648.8	23605.7	24006.0	24572.4	24529.4
47.5°	22528.9	22313.1	22873.0	23421.3	23470.8
50°	21173.7	21094.1	21605.2	22270.1	22319.0
52.5°	19850.4	19795.0	20330.1	21001.6	21087.6
55°	18532.3	18390.9	19012.7	19647.0	19696.5
57.5°	17123.0	16975.0	17609.3	18299.0	18403.3
60°	15614.0	15472.5	16168.0	16808.8	13367.0
62.5°	14105.6	14007.1	14733.9	10436.2	8410.9
65°	12486.3	12486.3	13212.5	7579.2	7603.9
67.5°	10972.1	10873.6	9851.5	6809.3	6809.3
70°	9346.3	9383.5	5676.4	5966.5	5972.3
72.5°	7714.7	7850.3	4901.3	5134.7	5147.1
75°	6169.2	6286.5	4081.9	4297.7	4316.0
77.5°	4531.7	3484.8	3281.5	3448.3	3454.2
80°	3183.0	2198.1	2512.3	2672.0	2653.7
82.5°	1859.1	1539.0	1840.8	1958.2	1951.7
85°	806.3	1022.1	1274.4	1379.3	1305.0
87.5°	258.1	634.3	794.0	855.9	849.4
90°	0.0	344.8	566.5	670.8	659.0
92.5°	0.0	270.5	492.8	616.0	621.9
95°	18.3	178.6	406.8	548.2	548.2
97.5°	12.4	129.1	289.4	430.9	443.3
100°	12.4	104.3	191.0	307.7	314.2
102.5°	30.6	86.0	116.7	196.9	203.4
105°	30.6	67.8	98.4	98.4	92.6



TEST NUMBER: P829713

CATALOG NUMBER: OHBL-100SE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.2	49.5	67.8	49.5	5.9
115°	30.6	43.0	61.3	43.0	5.9
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°	30.6	61.3	86.0	55.4	18.3
110°	37.2	55.4	73.7	49.5	5.9



(END OF REPORT)