

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: P829714

Luminaire Tested: **OHBL-100SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829714
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-L850-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

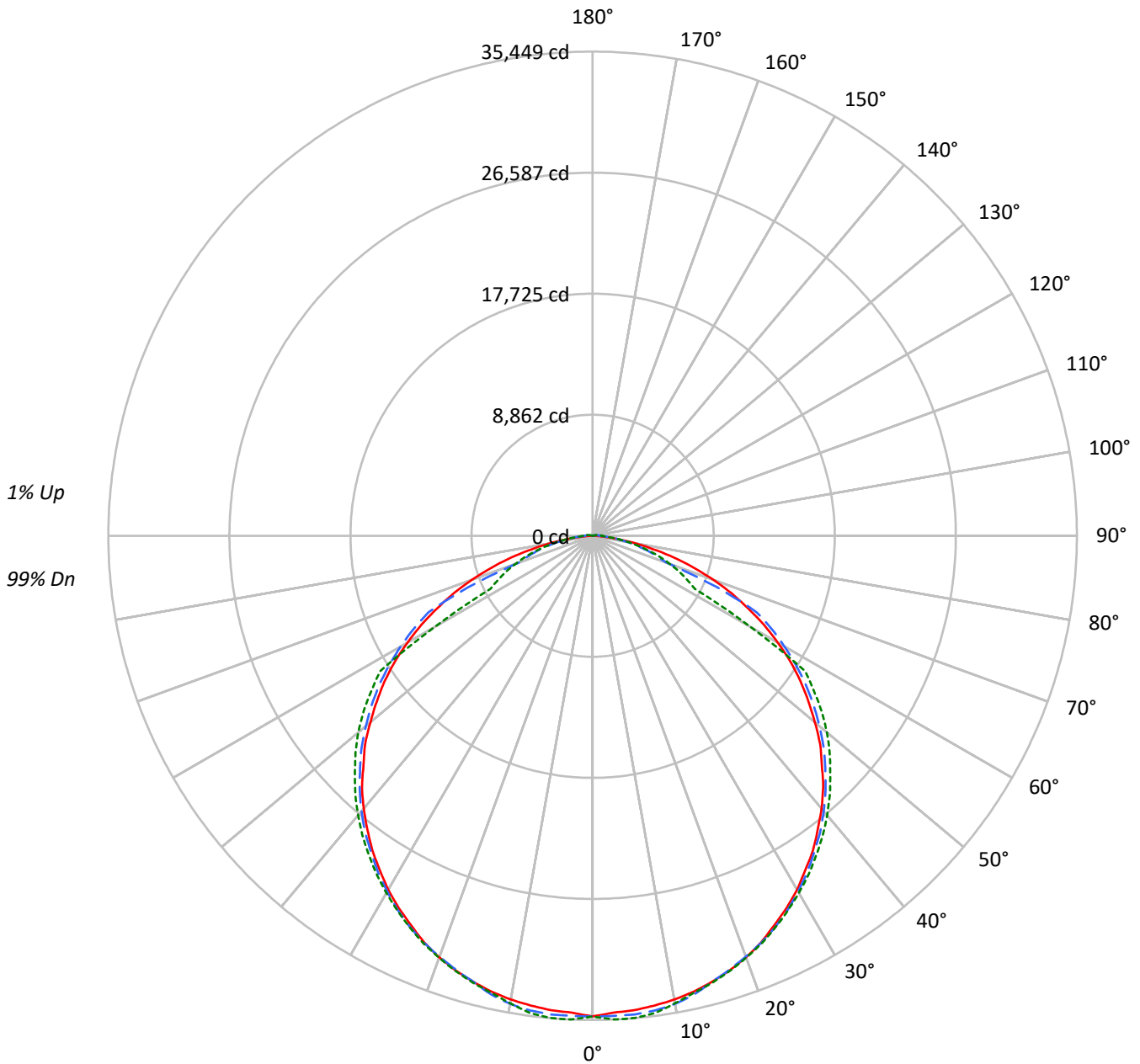
Lumens per Lamp: N/A
Luminaire Lumens: 98801.0 lumens
Efficiency: N/A
Efficacy: 167.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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

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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°	55653	55653	55653
5°	55345	55846	56267
10°	55361	55887	55817
15°	55351	55341	55462
20°	55276	55192	55327
25°	54898	55177	55221
30°	54644	54925	55140
35°	54289	54587	55100
40°	53821	54331	55134
45°	53045	53846	55020
50°	52245	53310	55071
55°	51245	52574	54465
60°	49529	51287	42402
65°	46860	49585	28537
70°	43342	26323	27695
75°	37805	25014	26448
80°	29072	22946	24238
85°	14674	23192	23749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3343.2	3.4
10°-20°	9572.5	9.7
20°-30°	14565.4	14.7
30°-40°	17709.5	17.9
40°-50°	18620.7	18.8
50°-60°	17002.9	17.2
60°-70°	10899.7	11.0
70°-80°	5148.9	5.2
80°-90°	1427.7	1.4
90°-100°	378.1	0.4
100°-110°	103.5	0.1
110°-120°	28.7	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°	27481.2	27.8
0°-40°	45190.7	45.7
0°-60°	80814.3	81.8
0°-90°	98290.6	99.5
90°-120°	510.3	0.5
90°-150°	510.3	0.5
90°-180°	510.0	0.5
0°-180°	98801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	35190	35190	35190	35190	35190	
5°	34863	34999	35178	35370	35443	###
15°	33807	34060	33801	33850	33875	9544
25°	31461	31510	31621	31671	31646	14517
35°	28120	27953	28274	28620	28540	17573
45°	23717	23674	24075	24644	24600	18332
55°	18586	18444	19068	19704	19754	16575
65°	12522	12522	13251	7601	7626	12415
75°	6187	6305	4094	4310	4328	6522
85°	809	1025	1278	1383	1309	1195
90°	0	346	568	673	661	35
95°	18	179	408	550	550	10
105°	31	68	99	99	93	31
115°	31	43	62	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	35190.4	35190.4	35190.4	35190.4	35190.4
2.5°	34943.3	35060.9	35190.4	35357.1	35449.3
5°	34862.8	34998.8	35178.0	35369.5	35443.4
7.5°	34690.3	34881.2	35054.4	35190.4	35233.5
10°	34473.9	34702.7	34801.4	34789.0	34758.2
12.5°	34183.6	34424.8	34394.1	34251.6	34276.4
15°	33807.1	34060.1	33801.2	33850.2	33875.0
17.5°	33362.5	33609.6	33306.9	33405.7	33412.2
20°	32844.1	33029.1	32794.4	32874.8	32874.8
22.5°	32220.4	32349.9	32251.1	32306.7	32319.1
25°	31460.8	31509.8	31620.9	31670.6	31645.8
27.5°	30732.5	30670.4	30886.8	31003.8	30941.7
30°	29923.2	29824.4	30077.4	30269.0	30195.1
32.5°	28996.8	28935.4	29225.6	29453.8	29410.6
35°	28120.1	27953.4	28274.4	28620.2	28539.8
37.5°	27082.6	26983.9	27348.1	27712.9	27669.7
40°	26070.0	25903.3	26317.1	26749.2	26706.1
42.5°	24983.5	24785.4	25236.5	25755.5	25705.9
45°	23717.2	23674.0	24075.4	24643.5	24600.4
47.5°	22594.0	22377.6	22939.2	23489.0	23538.7
50°	21234.9	21155.1	21667.7	22334.5	22383.5
52.5°	19907.8	19852.2	20389.0	21062.3	21148.6
55°	18585.9	18444.1	19067.7	19703.8	19753.5
57.5°	17172.5	17024.1	17660.2	18351.9	18456.5
60°	15659.1	15517.3	16214.8	16857.4	13405.7
62.5°	14146.4	14047.6	14776.6	10466.4	8435.3
65°	12522.5	12522.5	13250.7	7601.1	7625.9
67.5°	11003.8	10905.1	9880.0	6829.0	6829.0
70°	9373.4	9410.6	5692.8	5983.7	5989.6
72.5°	7737.1	7873.0	4915.5	5149.5	5162.0
75°	6187.0	6304.7	4093.7	4310.1	4328.4
77.5°	4544.8	3494.9	3290.9	3458.3	3464.2
80°	3192.2	2204.4	2519.5	2679.7	2661.4
82.5°	1864.5	1543.5	1846.2	1963.8	1957.3
85°	808.7	1025.1	1278.1	1383.3	1308.8
87.5°	258.9	636.1	796.3	858.4	851.8
90°	0.0	345.8	568.1	672.7	660.9
92.5°	0.0	271.3	494.2	617.8	623.7
95°	18.3	179.1	407.9	549.8	549.8
97.5°	12.4	129.4	290.3	432.1	444.5
100°	12.4	104.6	191.5	308.6	315.1
102.5°	30.7	86.3	117.0	197.4	204.0
105°	30.7	68.0	98.7	98.7	92.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.3	49.7	68.0	49.7	5.9
115°	30.7	43.1	61.5	43.1	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°	30.7	61.5	86.3	55.6	18.3
110°	37.3	55.6	73.9	49.7	5.9



(END OF REPORT)