

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: P830278

Luminaire Tested: **OHBL-30SE-N-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-30SE-N-UNV-L850-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

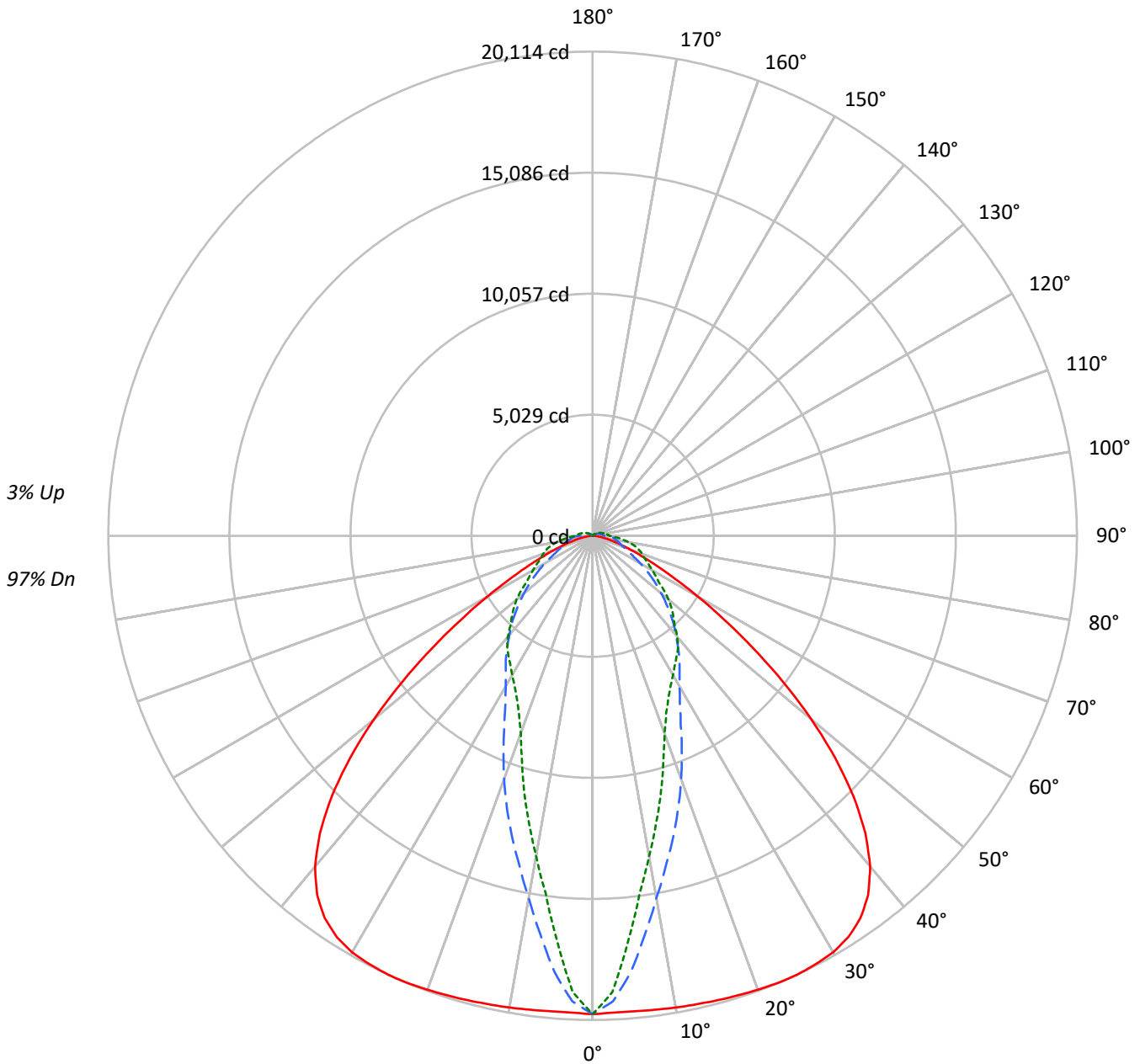
Lumens per Lamp: N/A
Luminaire Lumens: 29326.0 lumens
Efficiency: N/A
Efficacy: 168.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 174
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33938	33938	33938
5°	33869	30906	28735
10°	34251	26033	23041
15°	34920	22265	18911
20°	35901	18826	15296
25°	37142	15582	13402
30°	38426	13424	12451
35°	39226	12234	11862
40°	38554	11051	11254
45°	35469	9987	10419
50°	29924	8823	9779
55°	22738	7728	8702
60°	15935	6628	8331
65°	10719	5708	8156
70°	7320	5356	8556
75°	5080	5524	9142
80°	3497	6118	9412
85°	2046	7652	9873



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1672.6	5.7
10°-20°	3934.8	13.4
20°-30°	4932.2	16.8
30°-40°	5233.6	17.8
40°-50°	4732.0	16.1
50°-60°	3431.0	11.7
60°-70°	2153.1	7.3
70°-80°	1424.9	4.9
80°-90°	820.9	2.8
90°-100°	397.7	1.4
100°-110°	274.5	0.9
110°-120°	169.4	0.6
120°-130°	82.0	0.3
130°-140°	37.7	0.1
140°-150°	20.6	0.1
150°-160°	9.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	10539.6	35.9
0°-40°	15773.2	53.8
0°-60°	23936.2	81.6
0°-90°	28335.1	96.6
90°-120°	841.5	2.9
90°-150°	981.9	3.3
90°-180°	991.0	3.4
0°-180°	29326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19870	19870	19870	19870	19870	
5°	19830	19322	18187	17343	16907	###
15°	19982	16286	12935	11504	10982	5667
25°	20114	12593	8661	7687	7443	9292
35°	19393	8372	6286	6089	6088	12056
45°	15331	5303	4556	4665	4745	11679
55°	8117	3287	2973	3224	3340	7334
65°	2903	1906	1721	2205	2451	3021
75°	896	1027	1156	1795	1902	999
85°	157	426	845	1176	1080	188
90°	0	178	490	690	696	10
95°	8	125	431	586	613	7
105°	15	83	314	416	427	15
115°	21	59	212	265	270	20
125°	23	30	108	136	134	20
135°	19	23	47	74	74	15
145°	23	25	28	44	42	14
155°	23	28	30	32	28	7
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°	19869.9	19869.9	19869.9	19869.9	19869.9
2.5°	19828.3	19714.9	19361.2	19145.6	18964.1
5°	19830.2	19321.5	18186.8	17343.4	16906.6
7.5°	19858.6	18727.7	16683.4	15452.3	14971.9
10°	19902.1	17992.1	15280.2	13967.8	13519.6
12.5°	19934.2	17163.7	14045.3	12696.9	12205.2
15°	19981.5	16286.3	12935.2	11503.6	10981.7
17.5°	20025.0	15459.9	11838.4	10342.5	9761.9
20°	20068.5	14569.1	10741.5	9200.3	8721.8
22.5°	20110.1	13629.3	9671.2	8313.3	7986.2
25°	20113.9	12592.9	8661.3	7687.4	7443.4
27.5°	20064.7	11518.8	7842.4	7163.5	7012.2
30°	19979.6	10476.8	7207.0	6785.3	6677.5
32.5°	19767.8	9414.0	6715.3	6420.3	6357.9
35°	19393.4	8372.0	6286.1	6089.4	6087.5
37.5°	18803.3	7447.2	5820.8	5786.8	5828.4
40°	17931.5	6637.8	5380.2	5471.0	5471.0
42.5°	16768.5	5934.3	4981.2	5073.9	5049.3
45°	15331.3	5302.7	4555.7	4665.4	4744.8
47.5°	13665.2	4746.7	4120.7	4332.5	4442.2
50°	11853.5	4217.2	3723.6	3994.0	4118.8
52.5°	9954.8	3727.4	3335.9	3646.1	3746.3
55°	8116.7	3286.8	2972.8	3224.3	3339.7
57.5°	6452.5	2866.9	2617.3	2855.6	3093.9
60°	5020.9	2505.7	2282.6	2623.0	2861.3
62.5°	3835.2	2184.2	1968.6	2405.5	2643.8
65°	2902.9	1906.2	1720.9	2205.0	2450.9
67.5°	2188.0	1666.1	1528.0	2059.4	2299.6
70°	1643.4	1433.5	1372.9	1968.6	2184.2
72.5°	1214.1	1219.8	1250.0	1889.2	2053.7
75°	896.4	1026.9	1155.5	1794.7	1902.5
77.5°	641.1	851.0	1070.4	1681.2	1719.0
80°	444.4	694.0	981.5	1531.8	1499.7
82.5°	278.0	556.0	902.1	1367.3	1278.4
85°	157.0	425.5	845.3	1176.3	1079.8
87.5°	70.0	317.7	739.4	917.2	856.7
90°	0.0	177.8	489.8	690.3	695.9
92.5°	3.8	147.5	452.0	631.6	650.5
95°	7.6	124.8	431.2	586.2	612.7
97.5°	9.5	109.7	404.7	544.6	567.3
100°	11.3	98.3	372.5	501.1	520.1
102.5°	13.2	90.8	342.3	455.8	470.9
105°	15.1	83.2	313.9	416.0	427.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.9	64.3	236.4	298.8	308.3
115°	20.8	58.6	211.8	264.8	270.4
117.5°	22.7	51.1	185.3	232.6	234.5
120°	22.7	45.4	158.9	198.6	198.6
122.5°	22.7	37.8	132.4	164.5	162.6
125°	22.7	30.3	107.8	136.2	134.3
127.5°	20.8	24.6	87.0	113.5	111.6
130°	20.8	24.6	70.0	96.4	96.4
132.5°	18.9	22.7	56.7	83.2	83.2
135°	18.9	22.7	47.3	73.8	73.8
137.5°	18.9	24.6	39.7	64.3	64.3
140°	18.9	22.7	34.0	56.7	56.7
142.5°	20.8	22.7	30.3	49.2	49.2
145°	22.7	24.6	28.4	43.5	41.6
147.5°	22.7	26.5	28.4	37.8	35.9
150°	22.7	28.4	28.4	34.0	32.1
152.5°	22.7	28.4	28.4	32.1	30.3
155°	22.7	28.4	30.3	32.1	28.4
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°	15.1	77.5	287.4	372.5	385.8
110°	17.0	70.0	262.9	332.8	346.1



(END OF REPORT)