

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: P830867

Luminaire Tested: **OHBL-90SE-NL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830867
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-90SE-NL-UNV-L930-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

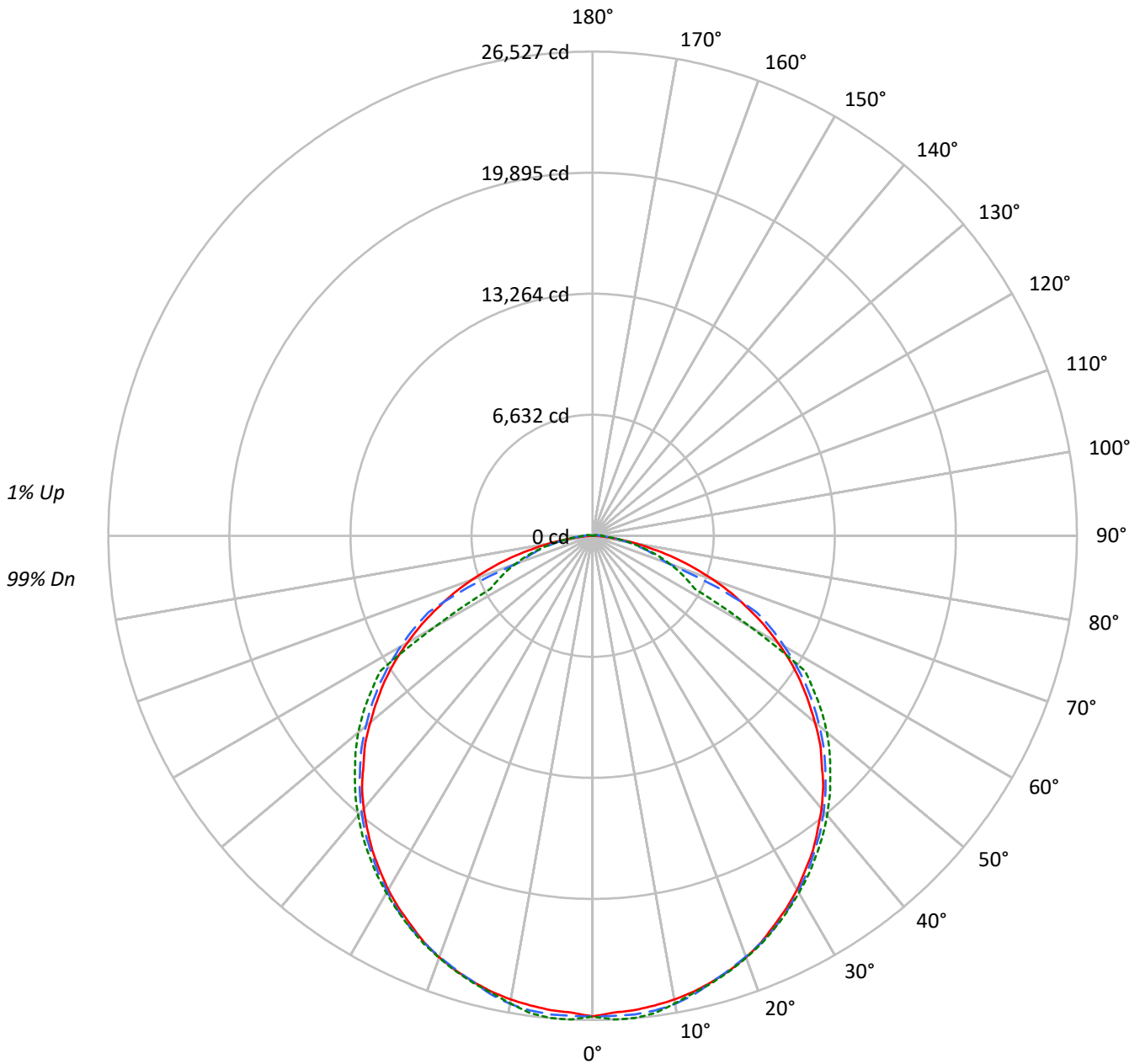
Lumens per Lamp: N/A
Luminaire Lumens: 73934.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 529
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°	41646	41646	41646
5°	41416	41790	42105
10°	41427	41821	41769
15°	41420	41413	41503
20°	41363	41301	41402
25°	41081	41290	41322
30°	40891	41101	41262
35°	40625	40848	41232
40°	40275	40656	41257
45°	39694	40293	41172
50°	39096	39892	41210
55°	38348	39342	40757
60°	37063	38378	31729
65°	35066	37105	21355
70°	32433	19698	20725
75°	28290	18718	19791
80°	21756	17171	18138
85°	10980	17354	17772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2501.8	3.4
10°-20°	7163.3	9.7
20°-30°	10899.5	14.7
30°-40°	13252.3	17.9
40°-50°	13934.1	18.8
50°-60°	12723.5	17.2
60°-70°	8156.4	11.0
70°-80°	3853.0	5.2
80°-90°	1068.4	1.4
90°-100°	282.9	0.4
100°-110°	77.5	0.1
110°-120°	21.5	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°	20564.5	27.8
0°-40°	33816.8	45.7
0°-60°	60474.4	81.8
0°-90°	73552.1	99.5
90°-120°	381.9	0.5
90°-150°	381.9	0.5
90°-180°	382.0	0.5
0°-180°	73934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26333	26333	26333	26333	26333	
5°	26088	26190	26324	26467	26523	###
15°	25298	25488	25294	25330	25349	7142
25°	23542	23579	23662	23700	23681	10863
35°	21043	20918	21158	21417	21357	13150
45°	17748	17716	18016	18441	18409	13718
55°	13908	13802	14269	14745	14782	12404
65°	9371	9371	9916	5688	5707	9290
75°	4630	4718	3063	3225	3239	4880
85°	605	767	956	1035	979	894
90°	0	259	425	503	495	27
95°	14	134	305	411	411	8
105°	23	51	74	74	70	23
115°	23	32	46	32	4	16
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°	26333.4	26333.4	26333.4	26333.4	26333.4
2.5°	26148.5	26236.5	26333.4	26458.1	26527.1
5°	26088.3	26190.1	26324.1	26467.4	26522.7
7.5°	25959.1	26102.0	26231.6	26333.4	26365.7
10°	25797.2	25968.4	26042.3	26033.0	26010.0
12.5°	25580.0	25760.5	25737.5	25630.9	25649.5
15°	25298.2	25487.6	25293.8	25330.5	25349.1
17.5°	24965.6	25150.5	24924.0	24997.9	25002.8
20°	24577.6	24716.1	24540.5	24600.6	24600.6
22.5°	24110.9	24207.8	24133.9	24175.5	24184.8
25°	23542.5	23579.2	23662.3	23699.5	23680.9
27.5°	22997.5	22951.0	23113.0	23200.5	23154.0
30°	22391.9	22318.0	22507.3	22650.7	22595.4
32.5°	21698.7	21652.7	21869.9	22040.6	22008.3
35°	21042.6	20917.9	21158.1	21416.9	21356.7
37.5°	20266.3	20192.4	20464.9	20737.9	20705.6
40°	19508.5	19383.7	19693.4	20016.8	19984.5
42.5°	18695.4	18547.2	18884.8	19273.2	19236.0
45°	17747.8	17715.6	18015.9	18441.1	18408.8
47.5°	16907.4	16745.5	17165.7	17577.1	17614.3
50°	15890.3	15830.7	16214.2	16713.2	16749.9
52.5°	14897.3	14855.7	15257.3	15761.2	15825.8
55°	13908.1	13801.9	14268.6	14744.6	14781.8
57.5°	12850.4	12739.4	13215.4	13732.9	13811.2
60°	11717.9	11611.8	12133.7	12614.6	10031.6
62.5°	10585.9	10512.0	11057.5	7832.2	6312.2
65°	9370.7	9370.7	9915.7	5688.0	5706.6
67.5°	8234.3	8160.4	7393.3	5110.2	5110.2
70°	7014.2	7042.1	4260.0	4477.7	4482.1
72.5°	5789.7	5891.5	3678.3	3853.5	3862.8
75°	4629.8	4717.9	3063.4	3225.3	3239.0
77.5°	3400.9	2615.3	2462.7	2587.9	2592.3
80°	2388.8	1649.6	1885.4	2005.2	1991.6
82.5°	1395.2	1155.0	1381.5	1469.6	1464.7
85°	605.1	767.1	956.4	1035.2	979.4
87.5°	193.7	476.0	595.9	642.3	637.4
90°	0.0	258.8	425.1	503.4	494.6
92.5°	0.0	203.0	369.8	462.3	466.7
95°	13.7	134.0	305.3	411.4	411.4
97.5°	9.3	96.9	217.2	323.4	332.7
100°	9.3	78.3	143.3	230.9	235.8
102.5°	23.0	64.6	87.6	147.7	152.6
105°	23.0	50.9	73.9	73.9	69.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.9	37.2	50.9	37.2	4.4
115°	23.0	32.3	46.0	32.3	4.4
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°	23.0	46.0	64.6	41.6	13.7
110°	27.9	41.6	55.3	37.2	4.4



(END OF REPORT)