

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P977412

Luminaire Tested: OHBL-100SE-A-UNV-L840-CD

Issue Date: 3/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P977412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-662-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/25/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: OHBL-100SE-A-UNV-L840-CD
Description: 100000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

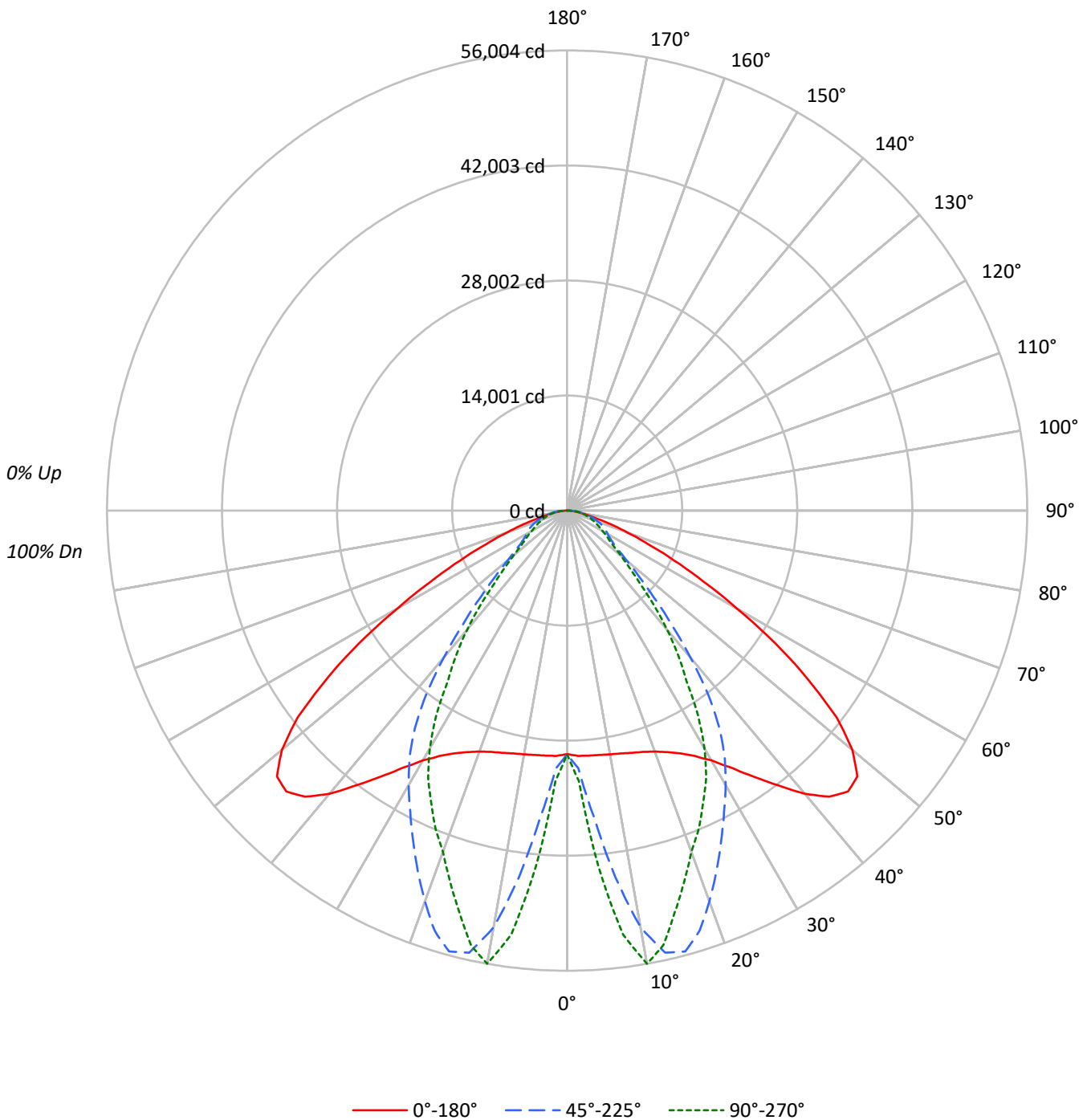
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95101.0 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
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: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					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	100				100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90				88	
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78				76	
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69				67	
4	88	77	70	64	86	76	69	63	74	68	63	72	66	62	69	65	61				59	
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	55				53	
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49				47	
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44				42	
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40				39	
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37				35	
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34				32	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46869	46869	46869
5°	47337	58975	68415
10°	47992	81344	88489
15°	49381	88654	80868
20°	51687	82297	71949
25°	55757	74049	65504
30°	62532	66711	57955
35°	73977	58422	45930
40°	89573	44519	36332
45°	103564	30352	25681
50°	105965	20837	18841
55°	92742	16414	15244
60°	70234	15377	13551
65°	49005	15449	12637
70°	32109	14932	11978
75°	20024	13862	11097
80°	12528	12238	10844
85°	6854	10605	8962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 106994 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3869.0	4.1
10°-20°	13655.6	14.4
20°-30°	20122.3	21.2
30°-40°	21145.4	22.2
40°-50°	16180.1	17.0
50°-60°	9770.2	10.3
60°-70°	5962.1	6.3
70°-80°	3254.2	3.4
80°-90°	1142.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	37646.9	39.6
0°-40°	58792.3	61.8
0°-60°	84742.5	89.1
0°-90°	95101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	95101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29636	29636	29636	29636	29636	
5°	29933	32114	37463	41831	43445	2862
15°	30517	47531	55550	51836	50618	8677
25°	32610	55164	44349	40151	39160	15241
35°	39500	44176	32309	26906	25333	25058
45°	48347	25207	14883	13096	12546	36529
55°	35754	8548	6775	6279	6260	31594
65°	14334	5411	4984	4265	4048	14687
75°	3816	3365	3087	2547	2444	4391
85°	568	1043	1230	1121	1017	732
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29636.1	29636.1	29636.1	29636.1	29636.1
2.5°	29878.8	30183.8	31386.0	32634.0	32937.7
5°	29933.4	32114.2	37463.2	41831.1	43445.0
7.5°	29997.0	35241.7	44992.9	50340.6	52052.5
10°	30117.7	39196.6	51517.4	55356.6	56003.5
12.5°	30267.7	43386.6	55107.6	54967.8	54151.9
15°	30516.7	47530.8	55549.8	51836.4	50617.7
17.5°	30778.5	51037.0	53620.7	48428.0	47366.9
20°	31204.3	53639.7	50620.2	45398.3	44192.3
22.5°	31818.1	55070.7	47473.6	42658.4	41871.7
25°	32609.8	55163.5	44348.6	40151.0	39159.8
27.5°	33671.0	53883.7	41353.2	37694.5	36647.3
30°	35114.7	51433.6	38570.1	34732.1	33433.3
32.5°	37075.6	47907.0	35700.5	31156.0	29699.6
35°	39500.3	44175.8	32308.6	26906.3	25333.0
37.5°	42146.2	40032.8	28192.4	23143.3	22227.0
40°	44992.9	35764.1	23313.6	19621.8	18966.1
42.5°	47214.4	31122.9	18781.8	16306.2	15608.5
45°	48346.7	25207.2	14882.8	13096.0	12545.8
47.5°	47905.7	19567.2	11798.5	10405.7	10240.5
50°	45332.2	14448.2	9444.9	8571.8	8503.2
52.5°	41308.7	10769.1	7801.7	7261.6	7143.4
55°	35753.9	8547.7	6774.9	6279.2	6260.2
57.5°	30018.6	7261.6	6149.6	5765.8	5632.4
60°	23900.7	6474.9	5675.6	5242.2	4971.5
62.5°	18734.8	5924.7	5327.4	4739.0	4486.1
65°	14333.8	5411.2	4984.2	4264.9	4047.6
67.5°	10685.2	4922.0	4564.9	3766.8	3639.7
70°	7785.2	4420.0	4087.0	3349.9	3249.5
72.5°	5548.5	3919.3	3609.2	2958.5	2848.0
75°	3816.3	3365.2	3086.9	2546.8	2443.8
77.5°	2574.7	2799.7	2572.2	2174.4	2131.2
80°	1719.5	2220.2	2080.4	1842.7	1816.0
82.5°	1043.4	1611.4	1641.9	1498.3	1425.9
85°	568.1	1043.4	1230.2	1120.9	1016.7
87.5°	222.4	578.2	847.7	761.2	716.8
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	22.98	24.39	23.34	24.71	25.02	18.41	19.82	18.77	20.13	20.45
	3H	24.68	25.94	25.06	26.27	26.64	20.12	21.39	20.50	21.72	22.08
	4H	25.09	26.27	25.49	26.62	27.00	20.84	22.02	21.24	22.37	22.75
	6H	25.27	26.36	25.69	26.73	27.12	21.49	22.58	21.90	22.95	23.34
	8H	25.30	26.33	25.72	26.72	27.12	21.75	22.79	22.18	23.18	23.58
	12H	25.29	26.28	25.72	26.66	27.09	21.96	22.95	22.39	23.33	23.76
4H	2H	23.06	24.24	23.46	24.59	24.97	19.20	20.38	19.60	20.73	21.11
	3H	24.90	25.88	25.32	26.28	26.68	21.13	22.10	21.54	22.51	22.91
	4H	25.43	26.31	25.87	26.73	27.17	21.94	22.82	22.38	23.24	23.68
	6H	25.75	26.51	26.21	26.95	27.42	22.71	23.47	23.17	23.91	24.37
	8H	25.81	26.52	26.27	26.96	27.43	23.02	23.73	23.49	24.18	24.65
	12H	25.83	26.46	26.31	26.94	27.41	23.28	23.91	23.77	24.39	24.87
8H	4H	25.52	26.23	25.98	26.67	27.14	22.38	23.09	22.85	23.54	24.01
	6H	25.94	26.52	26.44	27.02	27.50	23.28	23.86	23.78	24.36	24.84
	8H	26.06	26.59	26.58	27.10	27.59	23.68	24.21	24.20	24.72	25.21
	12H	26.13	26.60	26.65	27.09	27.66	24.05	24.51	24.56	25.00	25.57
12H	4H	25.51	26.14	25.99	26.62	27.10	22.43	23.07	22.92	23.55	24.02
	6H	25.95	26.48	26.47	26.99	27.48	23.37	23.90	23.89	24.41	24.90
	8H	26.12	26.59	26.63	27.08	27.65	23.85	24.31	24.36	24.81	25.38