

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: P977431

Luminaire Tested: OHBL-9HE-A-UNV-L840-CD

Issue Date: 3/25/2025

Test Information

Test Method: LM-79-2019
Report Number: P977431
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-9HE-A-UNV-L840-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

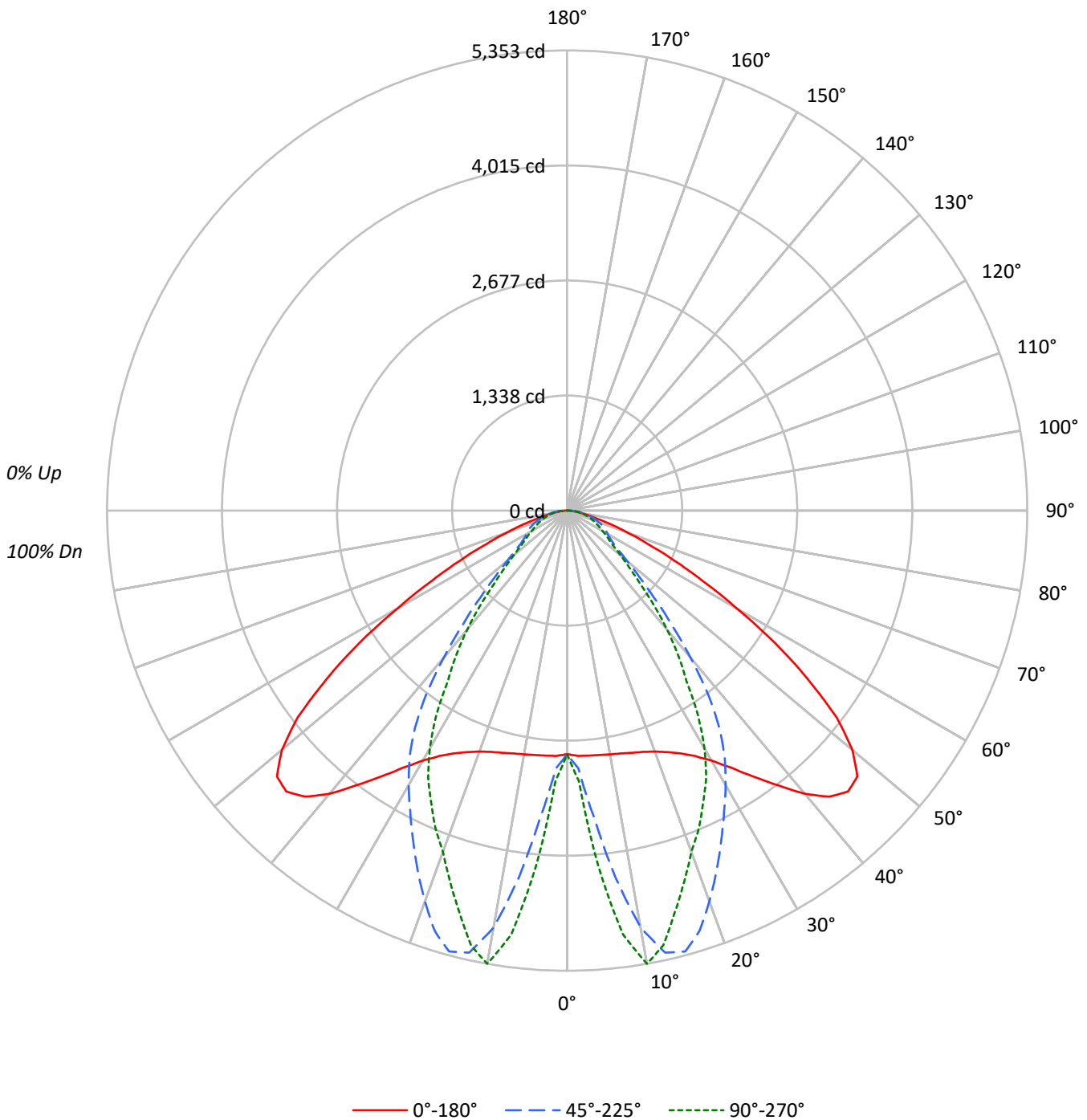
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9090.0 lumens
Efficiency: N/A
Efficacy: 174.8 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
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	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																												
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°	4838	4838	4838
5°	4887	6085	7058
10°	4954	8389	9123
15°	5098	9139	8332
20°	5336	8480	7408
25°	5756	7626	6740
30°	6455	6867	5958
35°	7636	6010	4718
40°	9246	4577	3729
45°	10691	3118	2633
50°	10939	2139	1930
55°	9574	1683	1559
60°	7250	1575	1384
65°	5059	1580	1287
70°	3314	1524	1217
75°	2067	1411	1123
80°	1293	1239	1090
85°	708	1065	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 11045 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	4.1
10°-20°	1305.2	14.4
20°-30°	1923.3	21.2
30°-40°	2021.1	22.2
40°-50°	1546.5	17.0
50°-60°	933.9	10.3
60°-70°	569.9	6.3
70°-80°	311.0	3.4
80°-90°	109.2	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°	3598.4	39.6
0°-40°	5619.5	61.8
0°-60°	8099.9	89.1
0°-90°	9090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2833	2833	2833	2833	2833	
5°	2861	3070	3581	3998	4153	274
15°	2917	4543	5310	4955	4838	829
25°	3117	5273	4239	3838	3743	1457
35°	3776	4222	3088	2572	2421	2395
45°	4621	2409	1422	1252	1199	3492
55°	3417	817	648	600	598	3020
65°	1370	517	476	408	387	1404
75°	365	322	295	243	234	420
85°	54	100	118	107	97	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2832.7	2832.7	2832.7	2832.7	2832.7
2.5°	2855.9	2885.0	3000.0	3119.2	3148.3
5°	2861.1	3069.6	3580.8	3998.3	4152.6
7.5°	2867.2	3368.5	4300.5	4811.7	4975.3
10°	2878.7	3746.5	4924.2	5291.1	5353.0
12.5°	2893.1	4147.0	5267.3	5254.0	5176.0
15°	2916.9	4543.1	5309.6	4954.7	4838.2
17.5°	2941.9	4878.3	5125.2	4628.9	4527.4
20°	2982.6	5127.0	4838.4	4339.3	4224.0
22.5°	3041.3	5263.8	4537.7	4077.4	4002.2
25°	3116.9	5272.7	4239.0	3837.7	3743.0
27.5°	3218.4	5150.3	3952.6	3602.9	3502.8
30°	3356.4	4916.2	3686.6	3319.8	3195.6
32.5°	3543.8	4579.1	3412.3	2978.0	2838.8
35°	3775.5	4222.4	3088.1	2571.8	2421.4
37.5°	4028.4	3826.4	2694.7	2212.1	2124.5
40°	4300.5	3418.4	2228.4	1875.5	1812.8
42.5°	4512.9	2974.8	1795.2	1558.6	1491.9
45°	4621.1	2409.4	1422.5	1251.8	1199.2
47.5°	4579.0	1870.3	1127.7	994.6	978.8
50°	4333.0	1381.0	902.8	819.3	812.8
52.5°	3948.4	1029.3	745.7	694.1	682.8
55°	3417.4	817.0	647.6	600.2	598.4
57.5°	2869.3	694.1	587.8	551.1	538.4
60°	2284.5	618.9	542.5	501.1	475.2
62.5°	1790.7	566.3	509.2	453.0	428.8
65°	1370.1	517.2	476.4	407.7	386.9
67.5°	1021.3	470.5	436.3	360.0	347.9
70°	744.1	422.5	390.6	320.2	310.6
72.5°	530.3	374.6	345.0	282.8	272.2
75°	364.8	321.7	295.1	243.4	233.6
77.5°	246.1	267.6	245.9	207.8	203.7
80°	164.3	212.2	198.8	176.1	173.6
82.5°	99.7	154.0	156.9	143.2	136.3
85°	54.3	99.7	117.6	107.1	97.2
87.5°	21.3	55.3	81.0	72.8	68.5
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	15.06	16.47	15.42	16.78	17.10	10.51	11.92	10.87	12.23	12.55
	3H	16.75	18.01	17.13	18.34	18.71	12.22	13.49	12.60	13.81	14.18
	4H	17.16	18.34	17.56	18.69	19.07	12.94	14.12	13.34	14.47	14.85
	6H	17.34	18.43	17.75	18.79	19.19	13.59	14.68	14.00	15.04	15.44
	8H	17.36	18.39	17.79	18.78	19.19	13.85	14.89	14.28	15.28	15.68
	12H	17.35	18.34	17.78	18.72	19.15	14.06	15.05	14.49	15.43	15.86
4H	2H	15.14	16.32	15.54	16.67	17.05	11.29	12.47	11.69	12.82	13.20
	3H	16.97	17.95	17.39	18.35	18.75	13.22	14.20	13.63	14.60	15.00
	4H	17.50	18.37	17.93	18.79	19.23	14.04	14.91	14.47	15.33	15.77
	6H	17.81	18.57	18.27	19.02	19.48	14.80	15.56	15.26	16.00	16.47
	8H	17.87	18.58	18.33	19.02	19.49	15.11	15.82	15.58	16.27	16.74
	12H	17.89	18.52	18.37	19.00	19.47	15.37	16.01	15.86	16.49	16.96
8H	4H	17.58	18.29	18.05	18.74	19.21	14.47	15.18	14.94	15.63	16.10
	6H	18.00	18.58	18.50	19.08	19.56	15.37	15.95	15.87	16.45	16.92
	8H	18.12	18.65	18.64	19.16	19.65	15.77	16.30	16.29	16.81	17.30
	12H	18.19	18.66	18.70	19.15	19.72	16.13	16.60	16.64	17.09	17.66
12H	4H	17.58	18.21	18.06	18.69	19.16	14.52	15.15	15.01	15.63	16.11
	6H	18.01	18.54	18.53	19.05	19.54	15.46	15.98	15.98	16.50	16.99
	8H	18.18	18.64	18.69	19.14	19.71	15.93	16.40	16.44	16.89	17.46