

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: NEO-RAY

Report Number: P983438

Luminaire Tested: S125IW-B1340UB27-4F0-XX-W2A-1

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IW-B1340UB27-4F0-XX-W2A-1
Description: Define 5 Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

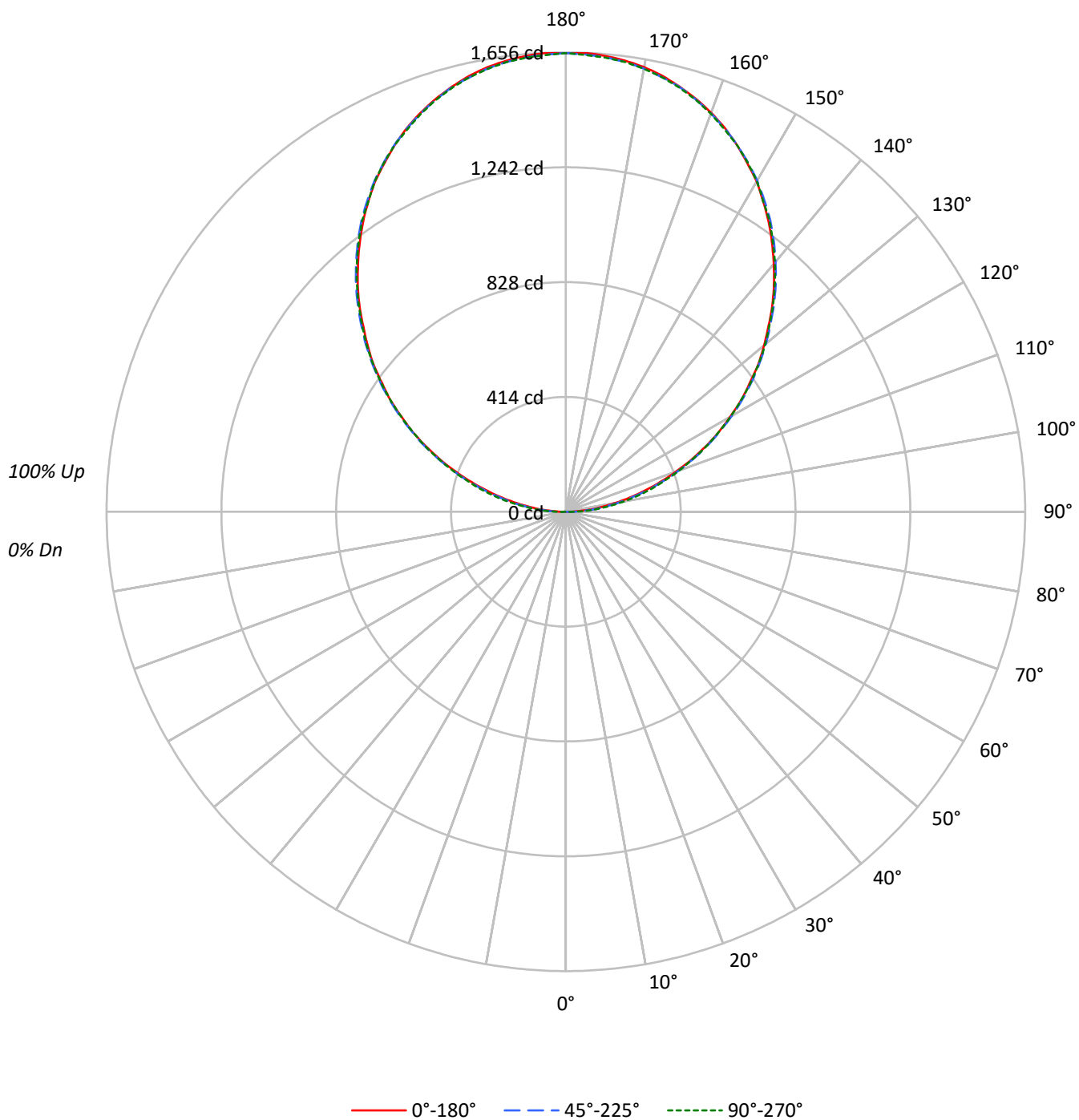
Lumens per Lamp: N/A
Luminaire Lumens: 4617.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 42.1
Input Voltage (V):
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

TEST NUMBER: P983438

CATALOG NUMBER: S125IW-B1340UB27-4F0-XX-W2A-1

Luminous Intensity Polar Plot



TEST NUMBER: P983438

CATALOG NUMBER: S125IW-B1340UB27-4F0-XX-W2A-1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

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

TEST NUMBER: P983438

CATALOG NUMBER: S125IW-B1340UB27-4F0-XX-W2A-1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	2.6	0.1
90°-100°	110.0	2.4
100°-110°	326.6	7.1
110°-120°	553.9	12.0
120°-130°	729.2	15.8
130°-140°	817.2	17.7
140°-150°	801.0	17.3
150°-160°	672.8	14.6
160°-170°	447.2	9.7
170°-180°	156.5	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	990.5	21.5
90°-150°	3337.9	72.3
90°-180°	4614.0	99.9
0°-180°	4617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	12	21	27	31	6
95°	84	86	99	108	111	87
105°	293	300	308	315	319	313
115°	555	560	562	561	560	549
125°	809	817	818	816	814	725
135°	1052	1060	1062	1062	1056	811
145°	1275	1280	1284	1284	1280	797
155°	1459	1459	1460	1466	1459	672
165°	1586	1584	1585	1590	1583	448
175°	1650	1644	1644	1652	1643	157
180°	1653	1653	1653	1653	1653	

TEST NUMBER: P983438

CATALOG NUMBER: S125IW-B1340UB27-4F0-XX-W2A-1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.3	11.6	20.6	27.0	30.9
92.5°	38.6	45.0	56.6	65.6	68.2
95°	83.6	86.2	99.1	108.1	110.7
97.5°	128.7	130.0	148.0	155.7	157.0
100°	180.1	180.1	196.9	208.4	211.0
102.5°	235.5	241.9	248.3	261.2	265.1
105°	293.4	299.8	307.5	315.2	319.1
107.5°	356.4	362.8	369.3	373.1	373.1
110°	422.0	428.5	432.3	436.2	434.9

TEST NUMBER: P983438

CATALOG NUMBER: S125IW-B1340UB27-4F0-XX-W2A-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.9	491.5	496.7	497.9	495.4
115°	554.6	559.7	562.3	561.0	559.7
117.5°	621.5	622.7	625.3	626.6	621.5
120°	683.2	689.7	690.9	690.9	685.8
122.5°	750.1	751.4	755.3	754.0	750.1
125°	809.3	817.0	818.3	815.7	814.5
127.5°	874.9	878.8	880.1	878.8	876.2
130°	932.8	939.3	941.8	940.6	938.0
132.5°	990.7	1002.3	1001.0	999.7	995.9
135°	1052.5	1060.2	1061.5	1061.5	1056.4
137.5°	1110.4	1118.1	1120.7	1122.0	1115.5
140°	1165.7	1172.2	1176.0	1178.6	1172.2
142.5°	1221.1	1226.2	1231.3	1232.6	1226.2
145°	1275.1	1280.2	1284.1	1284.1	1280.2
147.5°	1325.3	1329.1	1331.7	1335.6	1325.3
150°	1375.5	1374.2	1379.3	1379.3	1376.7
152.5°	1416.6	1419.2	1420.5	1424.3	1419.2
155°	1459.1	1459.1	1460.4	1465.5	1459.1
157.5°	1497.7	1495.1	1496.4	1501.5	1492.5
160°	1531.1	1527.3	1528.6	1533.7	1527.3
162.5°	1560.7	1558.2	1558.2	1564.6	1556.9
165°	1586.5	1583.9	1585.2	1590.3	1582.6
167.5°	1609.6	1604.5	1604.5	1612.2	1604.5
170°	1627.6	1622.5	1622.5	1630.2	1621.2
172.5°	1640.5	1635.4	1635.4	1643.1	1635.4
175°	1649.5	1644.4	1644.4	1652.1	1643.1
177.5°	1655.9	1650.8	1649.5	1657.2	1648.2
180°	1653.4	1653.4	1653.4	1653.4	1653.4

(END OF REPORT)