

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: P1035420

Luminaire Tested: S125DIW-B610D1340UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035420
REPORT IS A COMBINATION OF REPORTS P1003811 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB30-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

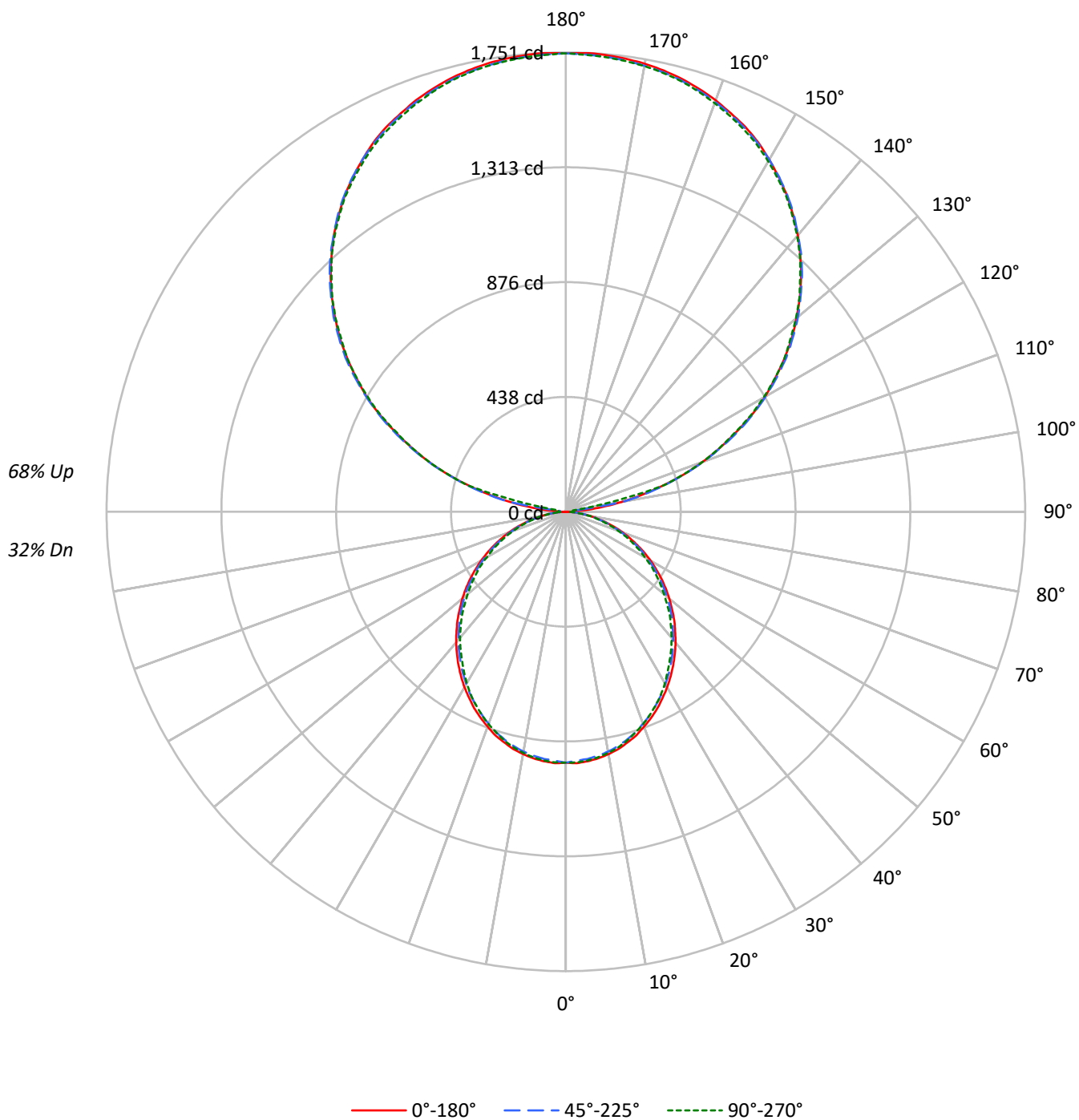
Lumens per Lamp: N/A
Luminaire Lumens: 7859.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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: P1035420

CATALOG NUMBER: S125DIW-B610D1340UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1035420

CATALOG NUMBER: S125DIW-B610D1340UB30-4F0-XX-W2A-F

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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	74	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28
3	78	69	61	56	70	62	56	51	49	45	41	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	32	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	19	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5163 cd/sqm

TEST NUMBER: P1035420

CATALOG NUMBER: S125DIW-B610D1340UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.1
10°-20°	254.9	3.2
20°-30°	376.3	4.8
30°-40°	439.0	5.6
40°-50°	440.9	5.6
50°-60°	387.1	4.9
60°-70°	288.3	3.7
70°-80°	164.6	2.1
80°-90°	50.1	0.6
90°-100°	59.3	0.8
100°-110°	394.4	5.0
110°-120°	710.2	9.0
120°-130°	911.5	11.6
130°-140°	980.4	12.5
140°-150°	920.1	11.7
150°-160°	744.3	9.5
160°-170°	481.3	6.1
170°-180°	166.0	2.1
0°-30°	721.4	9.2
0°-40°	1160.5	14.8
0°-60°	1988.5	25.3
0°-90°	2491.6	31.7
90°-120°	1163.8	14.8
90°-150°	3975.8	50.6
90°-180°	5367.0	68.3
0°-180°	7859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	46
90°	1	12	21	27	31	7
95°	74	70	21	27	27	90
105°	381	386	386	386	385	403
115°	715	722	723	718	710	709
125°	1017	1026	1026	1021	1017	908
135°	1268	1276	1273	1271	1263	978
145°	1470	1473	1473	1474	1466	919
155°	1619	1611	1614	1618	1607	746
165°	1708	1701	1702	1710	1699	483
175°	1747	1740	1741	1751	1740	166
180°	1747	1747	1747	1747	1747	

TEST NUMBER: P1035420

CATALOG NUMBER: S125DIW-B610D1340UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
90°	1.3	11.7	20.7	27.2	31.1
92.5°	24.6	13.0	20.7	27.2	28.5
95°	73.8	69.9	20.7	27.2	27.2
97.5°	138.6	146.4	23.3	25.9	27.2
100°	216.3	220.2	225.4	32.4	27.2
102.5°	295.3	300.5	303.1	305.7	196.9
105°	380.8	386.0	386.0	386.0	384.7
107.5°	468.9	468.9	471.5	472.8	467.6
110°	554.4	554.4	557.0	553.1	554.4

TEST NUMBER: P1035420

CATALOG NUMBER: S125DIW-B610D1340UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	634.7	638.6	639.9	634.7	632.1
115°	715.0	721.5	722.8	717.6	709.8
117.5°	799.2	799.2	804.4	796.6	794.0
120°	876.9	875.6	879.5	876.9	870.4
122.5°	945.5	952.0	953.3	950.7	943.0
125°	1016.8	1025.9	1025.9	1020.7	1016.8
127.5°	1085.4	1091.9	1090.6	1088.0	1077.7
130°	1147.6	1154.1	1155.4	1151.5	1145.0
132.5°	1209.8	1217.6	1213.7	1213.7	1207.2
135°	1268.1	1275.8	1273.3	1270.7	1262.9
137.5°	1322.5	1330.2	1327.7	1327.7	1321.2
140°	1375.6	1378.2	1376.9	1379.5	1371.7
142.5°	1423.5	1424.8	1427.4	1427.4	1419.6
145°	1470.1	1472.7	1472.7	1474.0	1466.2
147.5°	1511.6	1511.6	1512.9	1514.2	1505.1
150°	1550.4	1547.9	1550.4	1553.0	1542.7
152.5°	1588.0	1581.5	1584.1	1586.7	1577.6
155°	1619.1	1611.3	1613.9	1617.8	1607.4
157.5°	1643.7	1639.8	1639.8	1643.7	1633.3
160°	1669.6	1661.8	1663.1	1668.3	1657.9
162.5°	1690.3	1682.6	1683.9	1691.6	1680.0
165°	1708.5	1700.7	1702.0	1709.8	1699.4
167.5°	1722.7	1714.9	1716.2	1725.3	1713.6
170°	1734.4	1725.3	1726.6	1737.0	1725.3
172.5°	1742.1	1733.1	1735.7	1744.7	1733.1
175°	1747.3	1739.6	1740.8	1751.2	1739.6
177.5°	1751.2	1743.4	1744.7	1753.8	1743.4
180°	1747.3	1747.3	1747.3	1747.3	1747.3

(END OF REPORT)