

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: P1035424

Luminaire Tested: S125DIW-B610D1340UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035424
REPORT IS A COMBINATION OF REPORTS P1003817 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

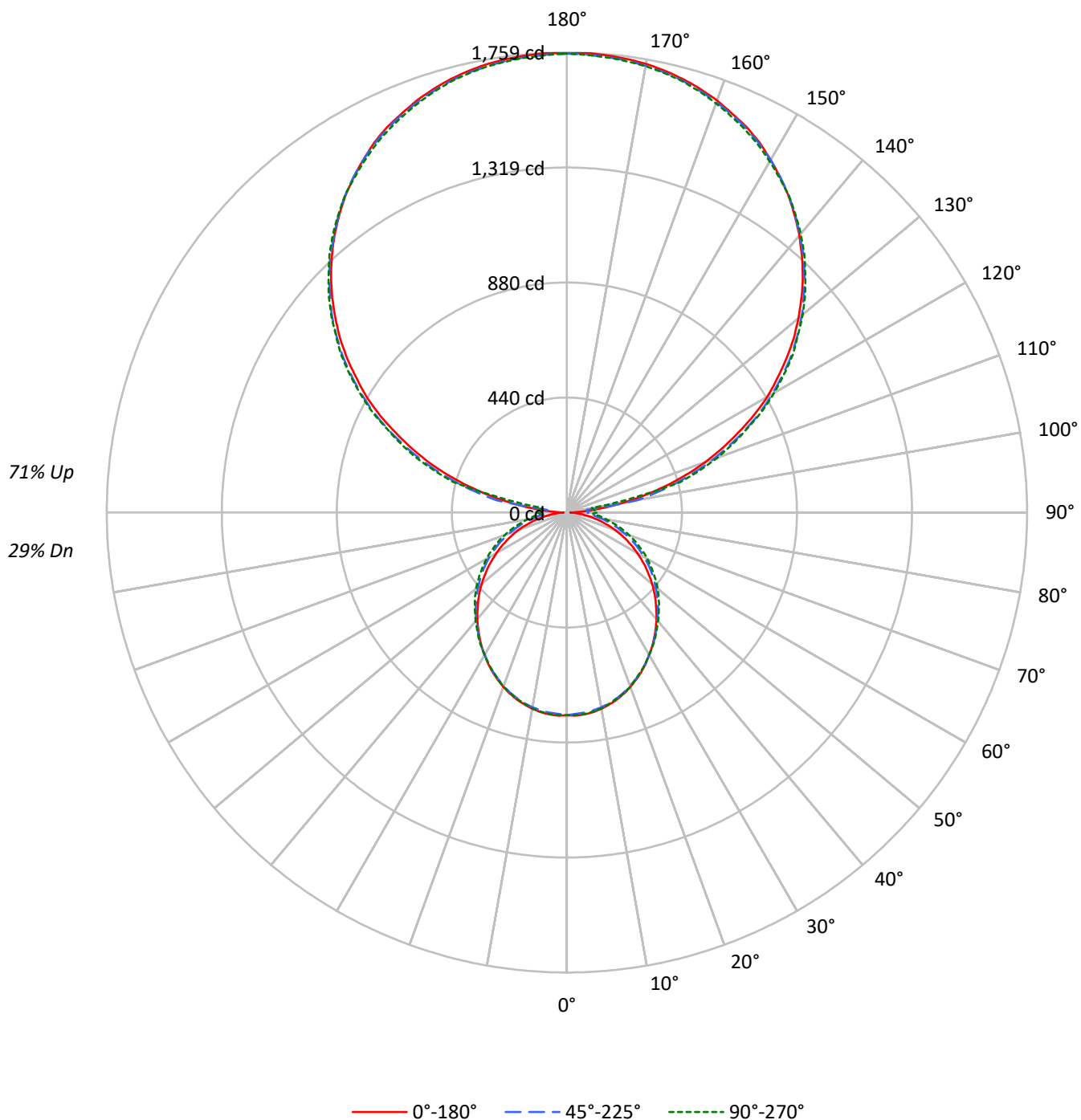
Lumens per Lamp: N/A
Luminaire Lumens: 7794.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1035424

CATALOG NUMBER: S125DIW-B610D1340UB35-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1035424

CATALOG NUMBER: S125DIW-B610D1340UB35-4F0-XX-W2A-D

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	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37
1	93	88	84	81	83	79	76	73	62	60	58	46	45	44	32	31	30
2	84	77	71	66	75	69	64	59	54	50	47	40	38	36	28	26	25
3	77	67	60	54	68	60	54	49	47	43	40	36	33	30	24	23	21
4	70	59	52	46	62	53	47	42	42	37	33	31	28	26	22	20	18
5	64	53	45	39	57	47	41	35	37	32	29	28	25	22	19	17	16
6	59	47	39	33	52	42	36	31	34	29	25	25	22	19	18	15	14
7	54	42	35	29	48	38	31	27	30	25	22	23	19	17	16	14	12
8	50	38	31	26	45	35	28	23	28	23	19	21	17	15	15	12	11
9	47	35	27	23	42	31	25	21	25	20	17	19	16	13	14	11	10
10	43	32	25	20	39	29	23	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

TEST NUMBER: P1035424

CATALOG NUMBER: S125DIW-B610D1340UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	0.9
10°-20°	208.2	2.7
20°-30°	309.6	4.0
30°-40°	366.7	4.7
40°-50°	379.1	4.9
50°-60°	349.2	4.5
60°-70°	282.3	3.6
70°-80°	188.9	2.4
80°-90°	100.2	1.3
90°-100°	114.5	1.5
100°-110°	436.6	5.6
110°-120°	740.3	9.5
120°-130°	930.8	11.9
130°-140°	991.3	12.7
140°-150°	925.4	11.9
150°-160°	747.5	9.6
160°-170°	483.4	6.2
170°-180°	166.7	2.1
0°-30°	591.2	7.6
0°-40°	957.8	12.3
0°-60°	1686.1	21.6
0°-90°	2257.5	29.0
90°-120°	1291.5	16.6
90°-150°	4138.9	53.1
90°-180°	5537.0	71.0
0°-180°	7794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	14	48	83	107	116	12
95°	84	100	76	100	105	99
105°	389	407	429	445	449	412
115°	723	734	756	764	761	716
125°	1024	1033	1048	1055	1054	915
135°	1275	1282	1285	1292	1288	983
145°	1477	1479	1479	1484	1479	924
155°	1626	1618	1621	1625	1614	749
165°	1716	1708	1709	1717	1707	485
175°	1755	1747	1748	1759	1747	167
180°	1755	1755	1755	1755	1755	

TEST NUMBER: P1035424

CATALOG NUMBER: S125DIW-B610D1340UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.5	48.2	83.1	107.1	116.3
92.5°	35.3	45.7	80.1	103.3	109.9
95°	84.0	99.8	76.3	99.5	104.8
97.5°	148.3	174.4	75.8	94.4	101.0
100°	225.6	245.4	274.9	97.1	96.4
102.5°	304.2	323.8	350.0	367.8	263.0
105°	389.2	406.6	429.4	444.6	448.6
107.5°	477.0	487.6	512.3	528.8	528.1
110°	562.1	571.2	595.1	605.7	612.3

TEST NUMBER: P1035424

CATALOG NUMBER: S125DIW-B610D1340UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	642.7	653.5	675.3	683.8	686.5
115°	722.7	734.5	755.5	764.0	760.7
117.5°	806.4	810.2	834.4	839.5	842.2
120°	884.5	885.5	906.9	917.2	915.2
122.5°	952.6	959.9	977.9	987.5	984.2
125°	1024.1	1032.6	1047.8	1054.6	1054.5
127.5°	1092.4	1098.1	1109.7	1118.5	1112.7
130°	1154.8	1160.5	1172.5	1179.2	1176.5
132.5°	1216.5	1224.3	1228.0	1238.7	1235.2
135°	1275.0	1282.1	1284.8	1292.1	1288.1
137.5°	1329.6	1336.7	1337.1	1346.2	1342.8
140°	1382.3	1384.9	1384.3	1395.3	1390.5
142.5°	1430.4	1430.9	1433.5	1440.3	1435.6
145°	1477.2	1479.0	1479.0	1484.1	1479.3
147.5°	1518.1	1518.1	1519.4	1522.2	1514.6
150°	1557.1	1554.5	1557.1	1559.7	1550.1
152.5°	1594.8	1588.3	1590.9	1593.5	1584.4
155°	1626.0	1618.2	1620.8	1624.7	1614.3
157.5°	1650.7	1646.8	1646.8	1650.7	1640.3
160°	1676.8	1669.0	1670.3	1675.5	1665.1
162.5°	1697.6	1689.8	1691.1	1698.9	1687.2
165°	1715.8	1708.0	1709.3	1717.1	1706.7
167.5°	1730.1	1722.3	1723.6	1732.7	1721.0
170°	1741.8	1732.7	1734.0	1744.4	1732.7
172.5°	1749.6	1740.5	1743.1	1752.2	1740.5
175°	1754.8	1747.0	1748.3	1758.7	1747.0
177.5°	1758.7	1750.9	1752.2	1761.3	1750.9
180°	1754.8	1754.8	1754.8	1754.8	1754.8

(END OF REPORT)