

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: P1035413

Luminaire Tested: S125DIW-B610D1340UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035413
REPORT IS A COMBINATION OF REPORTS P1003779 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

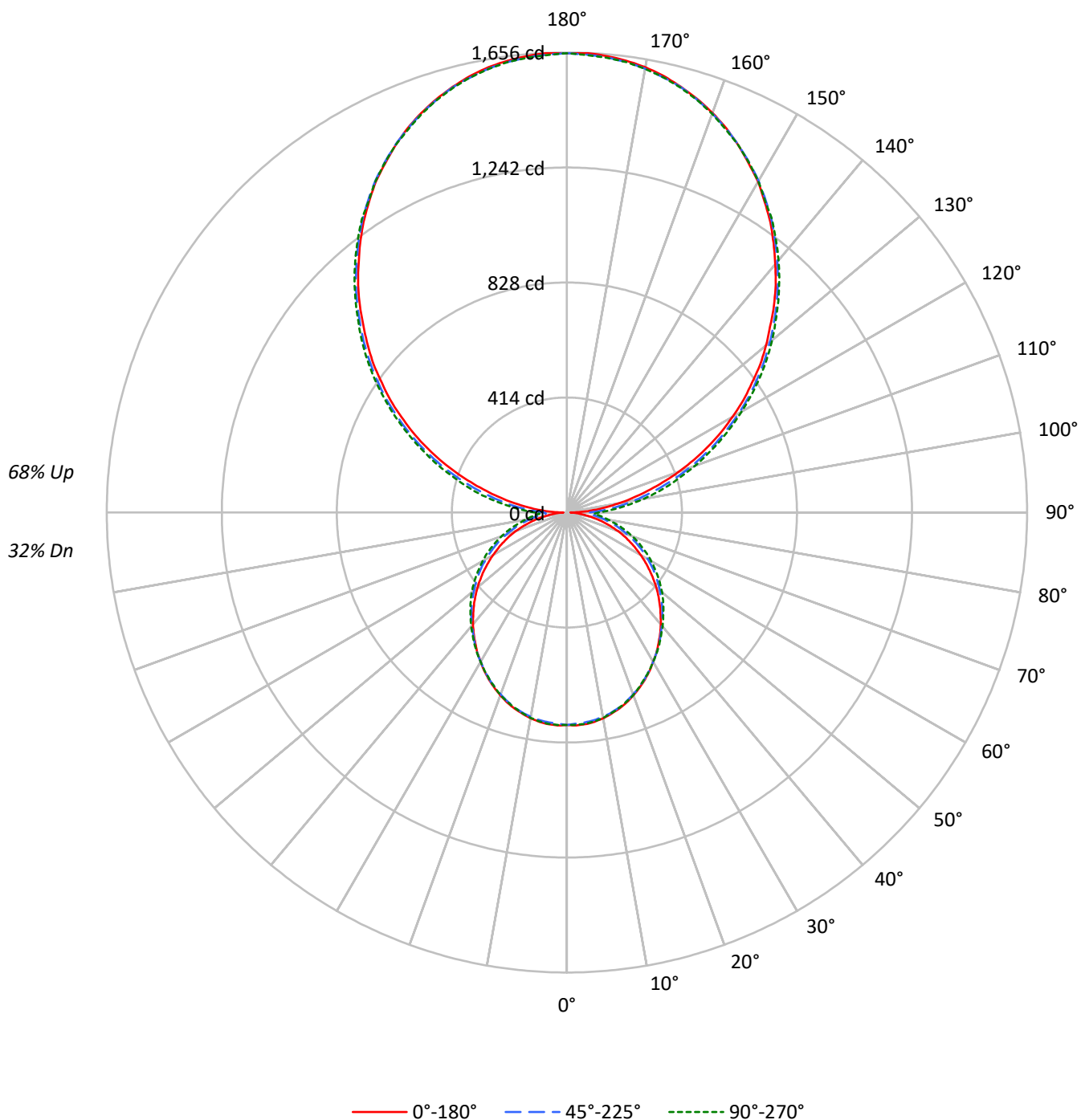
Lumens per Lamp: N/A
Luminaire Lumens: 6987.1 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1035413

CATALOG NUMBER: S125DIW-B610D1340UB27-4F0-XX-W2A-D1

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	39	39	39
1	93	89	85	81	84	80	77	74	63	61	59	48	47	45	34	33	32
2	85	77	71	66	76	70	64	60	55	52	48	42	40	37	30	28	27
3	77	68	60	55	69	61	55	50	49	44	40	37	34	31	26	24	23
4	70	60	52	46	63	54	47	42	43	38	34	33	29	27	23	21	19
5	64	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10
10	44	32	25	20	39	29	23	19	24	19	16	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4184 cd/sqm

TEST NUMBER: P1035413

CATALOG NUMBER: S125DIW-B610D1340UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.0
10°-20°	205.5	2.9
20°-30°	305.6	4.4
30°-40°	361.9	5.2
40°-50°	374.2	5.4
50°-60°	344.7	4.9
60°-70°	278.7	4.0
70°-80°	186.5	2.7
80°-90°	99.0	1.4
90°-100°	164.3	2.4
100°-110°	366.7	5.2
110°-120°	580.8	8.3
120°-130°	744.4	10.7
130°-140°	823.8	11.8
140°-150°	802.3	11.5
150°-160°	672.8	9.6
160°-170°	447.2	6.4
170°-180°	156.5	2.2
0°-30°	583.5	8.4
0°-40°	945.4	13.5
0°-60°	1664.3	23.8
0°-90°	2228.4	31.9
90°-120°	1111.7	15.9
90°-150°	3482.2	49.8
90°-180°	4759.0	68.1
0°-180°	6987.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	13	48	82	106	115	14
95°	93	116	154	179	187	95
105°	300	319	349	372	381	320
115°	559	570	592	604	607	553
125°	812	819	836	845	848	728
135°	1054	1061	1068	1077	1076	812
145°	1276	1280	1284	1288	1287	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: P1035413

CATALOG NUMBER: S125DIW-B610D1340UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	13.3	47.6	82.1	105.8	114.9
92.5°	49.1	77.3	115.1	140.6	148.5
95°	93.4	115.5	153.9	179.4	187.2
97.5°	137.7	157.0	199.8	223.2	229.8
100°	188.4	204.1	244.9	272.2	279.3
102.5°	243.0	263.7	293.3	321.2	329.6
105°	300.2	318.6	348.8	371.5	380.6
107.5°	362.4	379.3	407.6	426.4	430.9
110°	427.3	442.8	467.6	485.7	489.7

TEST NUMBER: P1035413

CATALOG NUMBER: S125DIW-B610D1340UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.2	503.5	529.0	543.7	546.4
115°	559.1	569.5	591.6	603.8	607.0
117.5°	625.3	630.2	651.6	665.6	665.8
120°	687.0	695.7	714.2	726.9	726.3
122.5°	753.1	755.2	775.6	786.3	786.9
125°	812.3	819.3	835.6	845.0	847.5
127.5°	877.2	880.3	894.4	904.3	906.2
130°	935.1	940.8	953.8	963.1	964.3
132.5°	992.2	1003.8	1010.0	1019.2	1018.4
135°	1054.0	1061.0	1067.5	1077.3	1075.9
137.5°	1111.9	1118.9	1124.5	1134.8	1131.3
140°	1166.5	1173.0	1177.5	1188.4	1185.0
142.5°	1221.9	1226.2	1231.3	1239.4	1236.0
145°	1275.9	1280.2	1284.1	1287.9	1287.0
147.5°	1325.3	1329.1	1331.7	1337.1	1328.3
150°	1375.5	1374.2	1379.3	1379.3	1377.5
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)