

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: P1035430

Luminaire Tested: S125DIW-B610D1340UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035430
REPORT IS A COMBINATION OF REPORTS P1003829 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

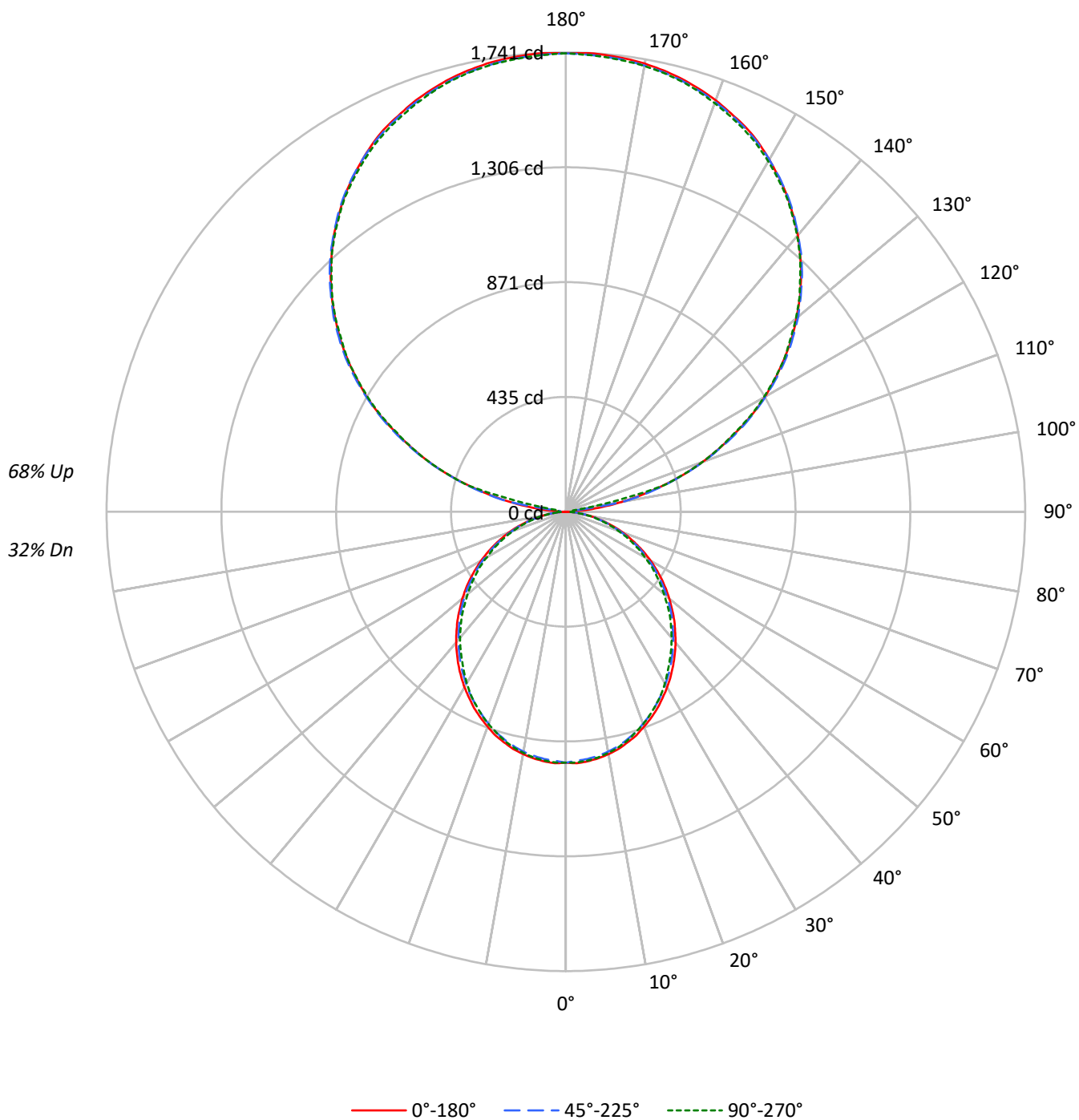
Lumens per Lamp: N/A
Luminaire Lumens: 7815.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1035430

CATALOG NUMBER: S125DIW-B610D1340UB40-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1035430

CATALOG NUMBER: S125DIW-B610D1340UB40-4F0-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°	6093	6093	6093
5°	6093	5951	5963
10°	6043	5815	5796
15°	5963	5652	5601
20°	5856	5462	5377
25°	5741	5256	5136
30°	5602	5041	4883
35°	5453	4816	4600
40°	5300	4577	4348
45°	5134	4345	4080
50°	4952	4082	3767
55°	4771	3791	3480
60°	4556	3485	3146
65°	4298	3131	2801
70°	4035	2724	2403
75°	3593	2243	1943
80°	3063	1675	1429
85°	2367	990	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5134 cd/sqm

TEST NUMBER: P1035430

CATALOG NUMBER: S125DIW-B610D1340UB40-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.1
10°-20°	253.5	3.2
20°-30°	374.2	4.8
30°-40°	436.6	5.6
40°-50°	438.5	5.6
50°-60°	384.9	4.9
60°-70°	286.7	3.7
70°-80°	163.7	2.1
80°-90°	49.9	0.6
90°-100°	59.0	0.8
100°-110°	392.1	5.0
110°-120°	706.2	9.0
120°-130°	906.4	11.6
130°-140°	974.9	12.5
140°-150°	915.0	11.7
150°-160°	740.1	9.5
160°-170°	478.7	6.1
170°-180°	165.1	2.1
0°-30°	717.4	9.2
0°-40°	1154.0	14.8
0°-60°	1977.3	25.3
0°-90°	2477.6	31.7
90°-120°	1157.3	14.8
90°-150°	3953.6	50.6
90°-180°	5337.0	68.3
0°-180°	7815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	948	940	947	946	90
15°	905	903	894	898	898	255
25°	822	818	808	810	807	378
35°	709	706	696	692	686	444
45°	581	578	569	560	558	447
55°	442	440	430	423	418	395
65°	299	297	289	282	279	296
75°	159	157	154	151	148	169
85°	41	42	42	41	40	45
90°	1	12	21	27	31	6
95°	73	70	21	27	27	90
105°	379	384	384	384	382	401
115°	711	717	719	714	706	705
125°	1011	1020	1020	1015	1011	903
135°	1261	1269	1266	1264	1256	972
145°	1462	1464	1464	1466	1458	914
155°	1610	1602	1605	1609	1598	742
165°	1699	1691	1692	1700	1690	480
175°	1738	1730	1731	1741	1730	165
180°	1738	1738	1738	1738	1738	

TEST NUMBER: P1035430

CATALOG NUMBER: S125DIW-B610D1340UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.9	950.9	950.9	950.9	950.9
2.5°	953.9	951.7	944.1	951.7	950.9
5°	949.4	947.9	940.4	947.2	946.4
7.5°	942.6	941.1	932.9	939.6	938.9
10°	932.9	931.4	923.1	929.1	928.3
12.5°	920.8	917.8	910.3	914.8	914.8
15°	905.0	902.8	894.5	898.3	898.3
17.5°	888.5	884.7	876.4	881.0	877.2
20°	866.7	865.2	855.4	860.6	856.9
22.5°	844.8	841.8	832.8	835.8	833.6
25°	821.5	817.8	808.0	809.5	807.2
27.5°	794.4	792.2	782.4	783.2	780.9
30°	768.1	765.8	754.6	753.1	750.8
32.5°	739.5	735.8	726.0	723.0	718.5
35°	709.4	706.4	695.9	692.1	686.1
37.5°	678.6	674.8	665.0	659.8	656.0
40°	647.0	643.2	632.7	625.9	623.7
42.5°	613.1	610.1	599.6	593.6	589.8
45°	580.8	577.8	568.7	559.7	557.5
47.5°	545.4	546.2	534.9	525.9	520.6
50°	511.6	509.3	500.3	490.5	485.2
52.5°	477.0	475.5	465.7	457.4	451.4
55°	442.4	440.1	429.6	422.8	417.5
57.5°	405.5	404.7	395.7	386.7	384.4
60°	370.9	367.9	359.6	352.1	346.8
62.5°	334.8	332.5	325.7	317.5	313.7
65°	298.7	297.2	288.9	282.1	279.1
67.5°	263.3	260.3	254.3	248.3	246.8
70°	230.2	226.4	219.7	215.2	212.2
72.5°	194.1	191.8	188.1	182.8	179.8
75°	158.7	157.2	153.5	151.2	148.2
77.5°	125.6	124.9	122.6	121.1	118.9
80°	94.8	94.8	93.3	92.5	91.0
82.5°	67.7	66.2	66.2	64.7	64.7
85°	41.4	42.1	42.1	41.4	39.9
87.5°	20.3	20.3	19.6	19.6	18.1
90°	1.3	11.6	20.6	27.0	30.9
92.5°	24.5	12.9	20.6	27.0	28.3
95°	73.4	69.6	20.6	27.0	27.0
97.5°	137.8	145.5	23.2	25.8	27.0
100°	215.1	219.0	224.1	32.2	27.0
102.5°	293.7	298.8	301.4	304.0	195.8
105°	378.7	383.8	383.8	383.8	382.5
107.5°	466.3	466.3	468.8	470.1	465.0
110°	551.3	551.3	553.9	550.0	551.3

TEST NUMBER: P1035430

CATALOG NUMBER: S125DIW-B610D1340UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	631.1	635.0	636.3	631.1	628.6
115°	711.0	717.4	718.7	713.6	705.8
117.5°	794.7	794.7	799.9	792.1	789.6
120°	872.0	870.7	874.6	872.0	865.6
122.5°	940.3	946.7	948.0	945.4	937.7
125°	1011.1	1020.1	1020.1	1015.0	1011.1
127.5°	1079.4	1085.8	1084.5	1082.0	1071.6
130°	1141.2	1147.6	1148.9	1145.1	1138.6
132.5°	1203.0	1210.8	1206.9	1206.9	1200.5
135°	1261.0	1268.7	1266.1	1263.6	1255.8
137.5°	1315.1	1322.8	1320.2	1320.2	1313.8
140°	1367.9	1370.5	1369.2	1371.8	1364.0
142.5°	1415.6	1416.8	1419.4	1419.4	1411.7
145°	1461.9	1464.5	1464.5	1465.8	1458.1
147.5°	1503.1	1503.1	1504.4	1505.7	1496.7
150°	1541.8	1539.2	1541.8	1544.4	1534.1
152.5°	1579.1	1572.7	1575.3	1577.8	1568.8
155°	1610.0	1602.3	1604.9	1608.8	1598.5
157.5°	1634.5	1630.7	1630.7	1634.5	1624.2
160°	1660.3	1652.6	1653.8	1659.0	1648.7
162.5°	1680.9	1673.2	1674.4	1682.2	1670.6
165°	1698.9	1691.2	1692.5	1700.2	1689.9
167.5°	1713.1	1705.4	1706.6	1715.7	1704.1
170°	1724.7	1715.7	1717.0	1727.3	1715.7
172.5°	1732.4	1723.4	1726.0	1735.0	1723.4
175°	1737.6	1729.8	1731.1	1741.4	1729.8
177.5°	1741.4	1733.7	1735.0	1744.0	1733.7
180°	1737.6	1737.6	1737.6	1737.6	1737.6

(END OF REPORT)