

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: P1035995

Luminaire Tested: S125RDIW-B610D1340UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035995
REPORT IS A COMBINATION OF REPORTS P1006647 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1340UB30-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

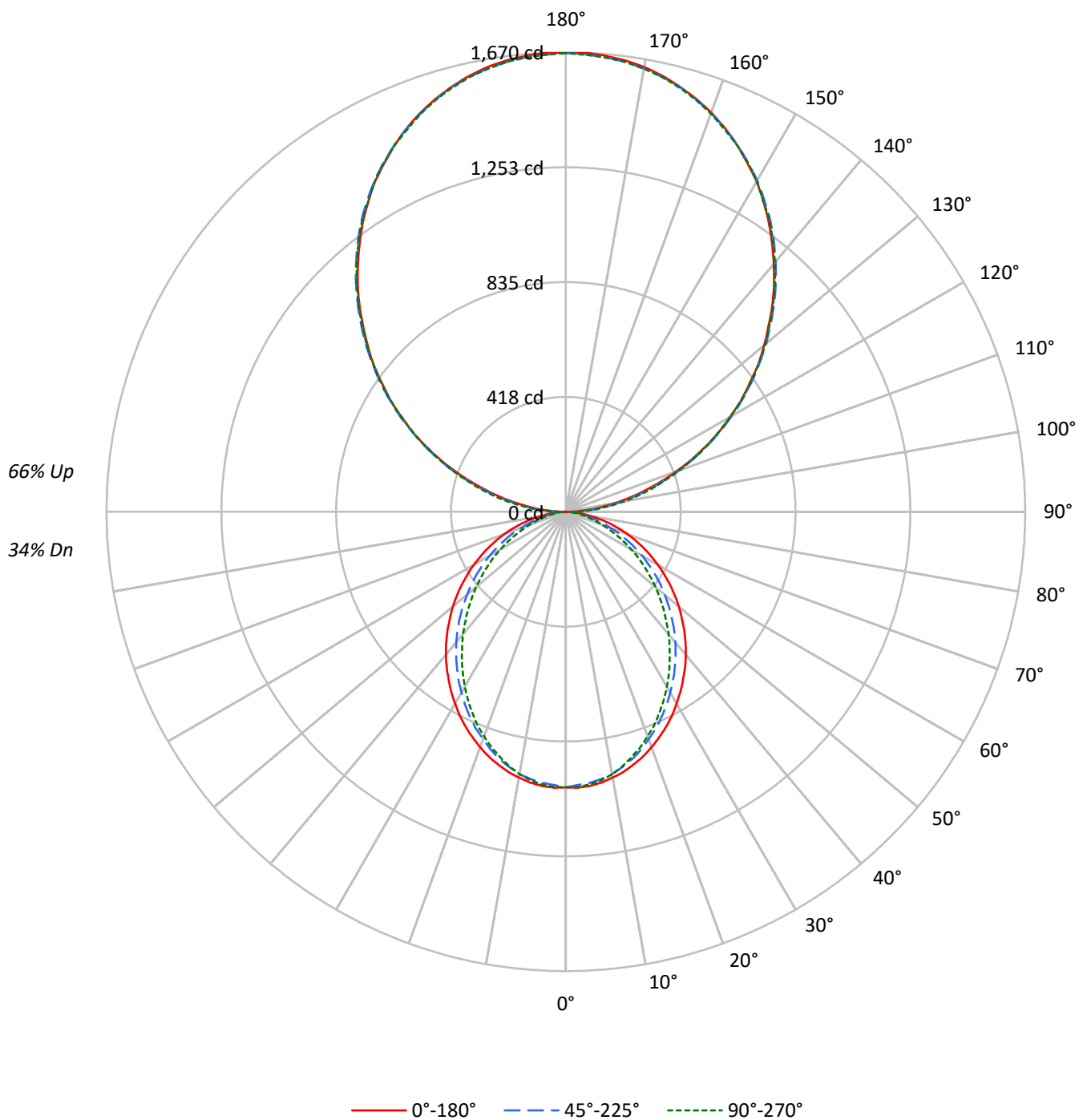
Lumens per Lamp: N/A
Luminaire Lumens: 7024.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1035995

CATALOG NUMBER: S125RDIW-B610D1340UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1035995

CATALOG NUMBER: S125RDIW-B610D1340UB30-4F0-XX-W2A-F1

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	74	74	74	57	57	57	41	41	41
1	94	90	86	83	85	81	78	76	65	63	61	50	49	48	37	36	35
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30
3	78	69	62	57	71	63	57	52	51	46	43	39	36	34	29	27	25
4	72	61	54	48	64	56	49	44	45	40	37	35	32	29	26	24	22
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14
9	48	36	29	24	44	33	27	23	27	22	19	22	18	16	16	14	12
10	45	33	26	22	41	30	24	20	25	20	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5378 cd/sqm

TEST NUMBER: P1035995

CATALOG NUMBER: S125RDIW-B610D1340UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.3
10°-20°	263.5	3.8
20°-30°	382.1	5.4
30°-40°	435.3	6.2
40°-50°	424.3	6.0
50°-60°	357.1	5.1
60°-70°	250.2	3.6
70°-80°	128.3	1.8
80°-90°	34.6	0.5
90°-100°	110.9	1.6
100°-110°	329.5	4.7
110°-120°	558.7	8.0
120°-130°	735.5	10.5
130°-140°	824.2	11.7
140°-150°	807.9	11.5
150°-160°	678.6	9.7
160°-170°	451.1	6.4
170°-180°	157.9	2.2
0°-30°	739.9	10.5
0°-40°	1175.2	16.7
0°-60°	1956.5	27.9
0°-90°	2369.6	33.7
90°-120°	999.1	14.2
90°-150°	3366.8	47.9
90°-180°	4654.0	66.3
0°-180°	7024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	1	12	21	27	31	8
95°	84	87	100	109	112	88
105°	296	302	310	318	322	316
115°	559	565	567	566	565	553
125°	816	824	825	823	822	731
135°	1062	1069	1071	1071	1066	818
145°	1286	1291	1295	1295	1291	804
155°	1472	1472	1473	1478	1472	678
165°	1600	1598	1599	1604	1596	452
175°	1664	1659	1659	1666	1657	158
180°	1668	1668	1668	1668	1668	

TEST NUMBER: P1035995

CATALOG NUMBER: S125RDIW-B610D1340UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
90°	1.3	11.7	20.8	27.3	31.1
92.5°	38.9	45.4	57.1	66.2	68.8
95°	84.4	87.0	99.9	109.0	111.6
97.5°	129.8	131.1	149.2	157.0	158.3
100°	181.7	181.7	198.6	210.2	212.8
102.5°	237.5	244.0	250.5	263.5	267.4
105°	295.9	302.4	310.2	318.0	321.9
107.5°	359.5	366.0	372.5	376.4	376.4
110°	425.7	432.2	436.1	440.0	438.7

TEST NUMBER: P1035995

CATALOG NUMBER: S125RDIW-B610D1340UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.2	495.8	501.0	502.3	499.7
115°	559.4	564.6	567.1	565.8	564.6
117.5°	626.8	628.1	630.7	632.0	626.8
120°	689.1	695.6	696.9	696.9	691.7
122.5°	756.6	757.9	761.8	760.5	756.6
125°	816.3	824.1	825.4	822.8	821.5
127.5°	882.5	886.4	887.7	886.4	883.8
130°	940.9	947.4	950.0	948.7	946.1
132.5°	999.3	1011.0	1009.7	1008.4	1004.5
135°	1061.6	1069.4	1070.7	1070.7	1065.5
137.5°	1120.0	1127.8	1130.4	1131.7	1125.2
140°	1175.8	1182.3	1186.2	1188.8	1182.3
142.5°	1231.6	1236.8	1242.0	1243.3	1236.8
145°	1286.1	1291.3	1295.2	1295.2	1291.3
147.5°	1336.8	1340.6	1343.2	1347.1	1336.8
150°	1387.4	1386.1	1391.3	1391.3	1388.7
152.5°	1428.9	1431.5	1432.8	1436.7	1431.5
155°	1471.7	1471.7	1473.0	1478.2	1471.7
157.5°	1510.7	1508.1	1509.4	1514.6	1505.5
160°	1544.4	1540.5	1541.8	1547.0	1540.5
162.5°	1574.3	1571.7	1571.7	1578.1	1570.4
165°	1600.2	1597.6	1598.9	1604.1	1596.3
167.5°	1623.6	1618.4	1618.4	1626.2	1618.4
170°	1641.7	1636.5	1636.5	1644.3	1635.3
172.5°	1654.7	1649.5	1649.5	1657.3	1649.5
175°	1663.8	1658.6	1658.6	1666.4	1657.3
177.5°	1670.3	1665.1	1663.8	1671.6	1662.5
180°	1667.7	1667.7	1667.7	1667.7	1667.7

(END OF REPORT)