

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: P1036008

Luminaire Tested: S125RDIW-B610D1560UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036008
REPORT IS A COMBINATION OF REPORTS P1006670 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1560UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

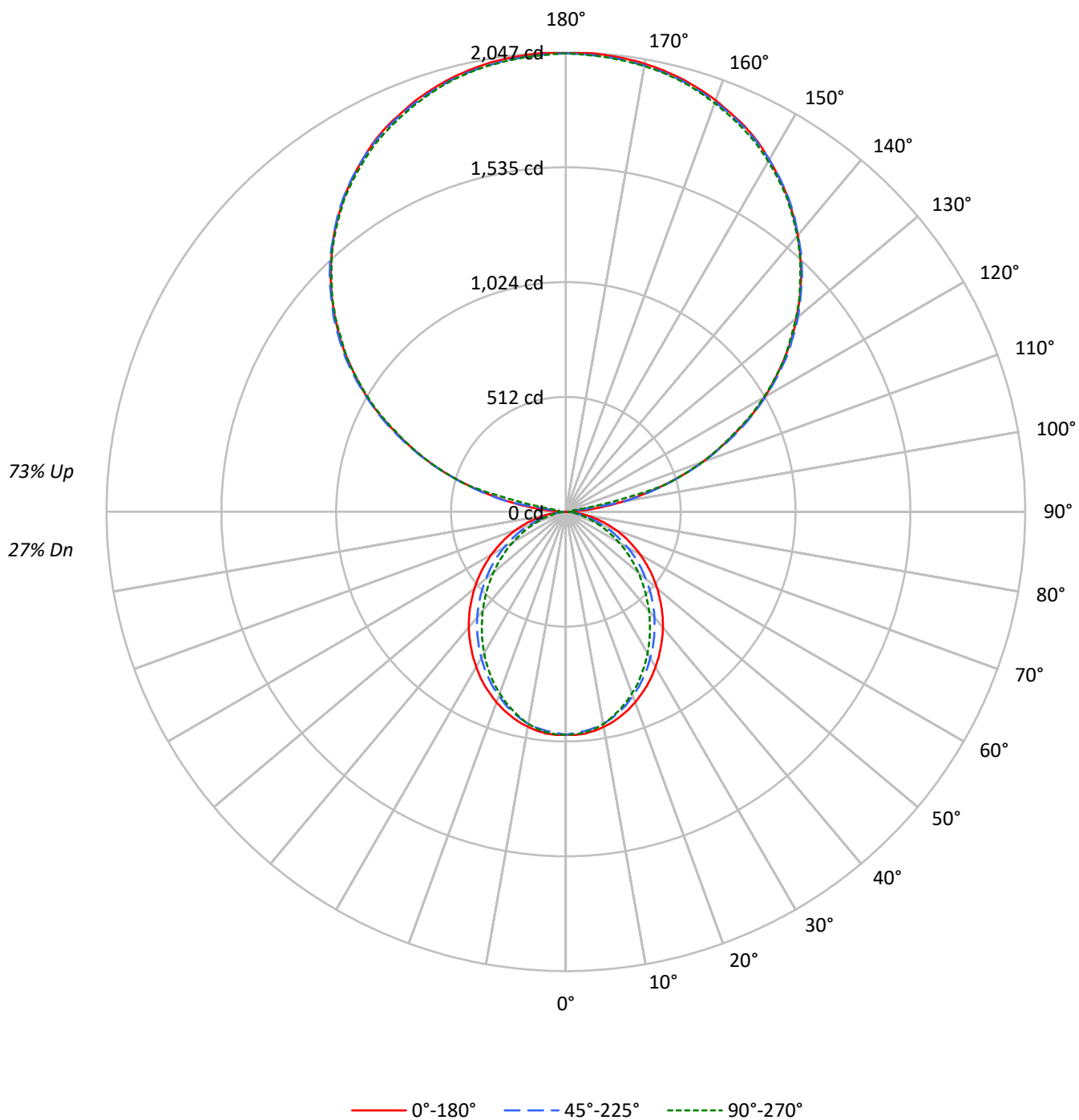
Lumens per Lamp: N/A
Luminaire Lumens: 8625.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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: P1036008

CATALOG NUMBER: S125RDIW-B610D1560UB27-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1036008

CATALOG NUMBER: S125RDIW-B610D1560UB27-4F0-XX-W2A-F

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30				23
2	85	78	72	67	75	69	65	60	54	51	48	41	38	37	28	26	25				20
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22				17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19				14
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16				13
6	59	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14				11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13				10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11				9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10				8
10	44	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9				7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6365	6365	6365
5°	6366	6206	6216
10°	6303	6050	5997
15°	6214	5831	5707
20°	6103	5567	5404
25°	5977	5310	5080
30°	5822	5027	4738
35°	5664	4740	4376
40°	5513	4446	4022
45°	5332	4127	3651
50°	5149	3789	3274
55°	4936	3456	2883
60°	4718	3076	2478
65°	4459	2651	2040
70°	4156	2158	1606
75°	3738	1622	1171
80°	3151	1050	790
85°	2361	564	444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5332 cd/sqm

TEST NUMBER: P1036008

CATALOG NUMBER: S125RDIW-B610D1560UB27-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.1
10°-20°	261.3	3.0
20°-30°	378.8	4.4
30°-40°	431.6	5.0
40°-50°	420.7	4.9
50°-60°	354.1	4.1
60°-70°	248.1	2.9
70°-80°	127.2	1.5
80°-90°	34.8	0.4
90°-100°	69.3	0.8
100°-110°	461.0	5.3
110°-120°	830.2	9.6
120°-130°	1065.6	12.4
130°-140°	1146.1	13.3
140°-150°	1075.7	12.5
150°-160°	870.1	10.1
160°-170°	562.7	6.5
170°-180°	194.1	2.3
0°-30°	733.6	8.5
0°-40°	1165.2	13.5
0°-60°	1940.0	22.5
0°-90°	2350.1	27.2
90°-120°	1360.6	15.8
90°-150°	4648.1	53.9
90°-180°	6275.0	72.8
0°-180°	8625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	992	989	981	988	987	94
15°	943	939	923	922	915	266
25°	855	844	816	807	798	394
35°	737	719	685	663	653	461
45°	603	582	540	510	499	465
55°	458	434	392	358	346	409
65°	310	284	245	215	203	307
75°	165	143	111	94	89	174
85°	41	28	24	23	22	45
90°	2	14	24	32	36	7
95°	86	82	24	32	32	106
105°	445	451	451	451	450	472
115°	836	844	845	839	830	829
125°	1189	1199	1199	1193	1189	1062
135°	1482	1492	1488	1486	1476	1143
145°	1719	1722	1722	1723	1714	1075
155°	1893	1884	1887	1891	1879	872
165°	1997	1988	1990	1999	1987	564
175°	2043	2034	2035	2047	2034	195
180°	2043	2043	2043	2043	2043	

TEST NUMBER: P1036008

CATALOG NUMBER: S125RDIW-B610D1560UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.4	993.4	993.4	993.4	993.4
2.5°	995.6	993.4	985.9	993.4	992.6
5°	991.9	988.9	980.6	988.1	986.6
7.5°	984.4	981.4	971.6	977.6	976.1
10°	973.1	970.9	960.4	962.6	960.4
12.5°	960.4	957.4	942.4	943.9	940.1
15°	943.1	938.6	922.9	922.1	915.3
17.5°	925.1	918.3	899.6	895.8	890.6
20°	903.3	895.8	871.8	868.1	861.3
22.5°	879.3	871.8	846.3	838.1	832.8
25°	855.3	844.1	816.3	806.6	798.3
27.5°	828.3	814.8	785.5	772.8	764.5
30°	798.3	784.0	752.5	735.3	728.5
32.5°	769.0	751.8	719.5	700.0	691.0
35°	736.8	718.8	685.0	663.3	652.7
37.5°	706.0	684.3	649.7	624.2	613.7
40°	673.0	650.5	614.5	586.0	577.0
42.5°	638.5	615.2	577.7	550.7	536.5
45°	603.2	581.5	540.2	510.2	498.9
47.5°	566.5	544.0	502.7	471.9	459.2
50°	532.0	507.2	464.4	432.9	421.7
52.5°	494.4	468.9	429.2	394.7	383.4
55°	457.7	433.7	391.6	357.9	345.9
57.5°	420.2	394.7	354.1	321.1	310.6
60°	384.1	357.9	317.4	284.4	273.1
62.5°	345.9	321.1	279.9	249.8	238.6
65°	309.9	284.4	244.6	214.6	203.3
67.5°	273.9	248.3	210.1	181.6	172.6
70°	237.1	211.6	174.1	150.8	141.8
72.5°	201.1	176.3	141.8	120.8	115.5
75°	165.1	142.6	111.0	94.5	89.3
77.5°	128.3	110.3	84.0	71.3	66.8
80°	97.5	79.5	58.5	51.8	50.3
82.5°	67.5	51.8	39.0	36.8	36.0
85°	41.3	27.8	24.0	23.3	22.5
87.5°	17.3	12.0	11.3	11.3	10.5
90°	1.5	13.6	24.2	31.8	36.3
92.5°	28.8	15.1	24.2	31.8	33.3
95°	86.3	81.8	24.2	31.8	31.8
97.5°	162.0	171.1	27.3	30.3	31.8
100°	252.9	257.4	263.5	37.9	31.8
102.5°	345.3	351.3	354.3	357.4	230.2
105°	445.2	451.3	451.3	451.3	449.7
107.5°	548.2	548.2	551.2	552.7	546.7
110°	648.1	648.1	651.1	646.6	648.1

TEST NUMBER: P1036008

CATALOG NUMBER: S125RDIW-B610D1560UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	742.0	746.5	748.1	742.0	739.0
115°	835.9	843.5	845.0	838.9	829.8
117.5°	934.3	934.3	940.4	931.3	928.3
120°	1025.2	1023.7	1028.2	1025.2	1017.6
122.5°	1105.4	1113.0	1114.5	1111.5	1102.4
125°	1188.7	1199.3	1199.3	1193.3	1188.7
127.5°	1269.0	1276.5	1275.0	1272.0	1259.9
130°	1341.7	1349.2	1350.7	1346.2	1338.6
132.5°	1414.3	1423.4	1418.9	1418.9	1411.3
135°	1482.5	1491.6	1488.5	1485.5	1476.4
137.5°	1546.1	1555.2	1552.1	1552.1	1544.6
140°	1608.2	1611.2	1609.7	1612.7	1603.6
142.5°	1664.2	1665.7	1668.7	1668.7	1659.7
145°	1718.7	1721.7	1721.7	1723.3	1714.2
147.5°	1767.2	1767.2	1768.7	1770.2	1759.6
150°	1812.6	1809.6	1812.6	1815.6	1803.5
152.5°	1856.5	1848.9	1852.0	1855.0	1844.4
155°	1892.9	1883.8	1886.8	1891.3	1879.2
157.5°	1921.6	1917.1	1917.1	1921.6	1909.5
160°	1951.9	1942.8	1944.3	1950.4	1938.3
162.5°	1976.1	1967.1	1968.6	1977.7	1964.0
165°	1997.3	1988.3	1989.8	1998.9	1986.7
167.5°	2014.0	2004.9	2006.4	2017.0	2003.4
170°	2027.6	2017.0	2018.5	2030.7	2017.0
172.5°	2036.7	2026.1	2029.1	2039.7	2026.1
175°	2042.8	2033.7	2035.2	2047.3	2033.7
177.5°	2047.3	2038.2	2039.7	2050.3	2038.2
180°	2042.8	2042.8	2042.8	2042.8	2042.8

(END OF REPORT)