

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: P1036016

Luminaire Tested: S125RDIW-B610D1560UB35-4F0-XX-W2A-F

Issue Date: 5/6/2025

**Test Information**

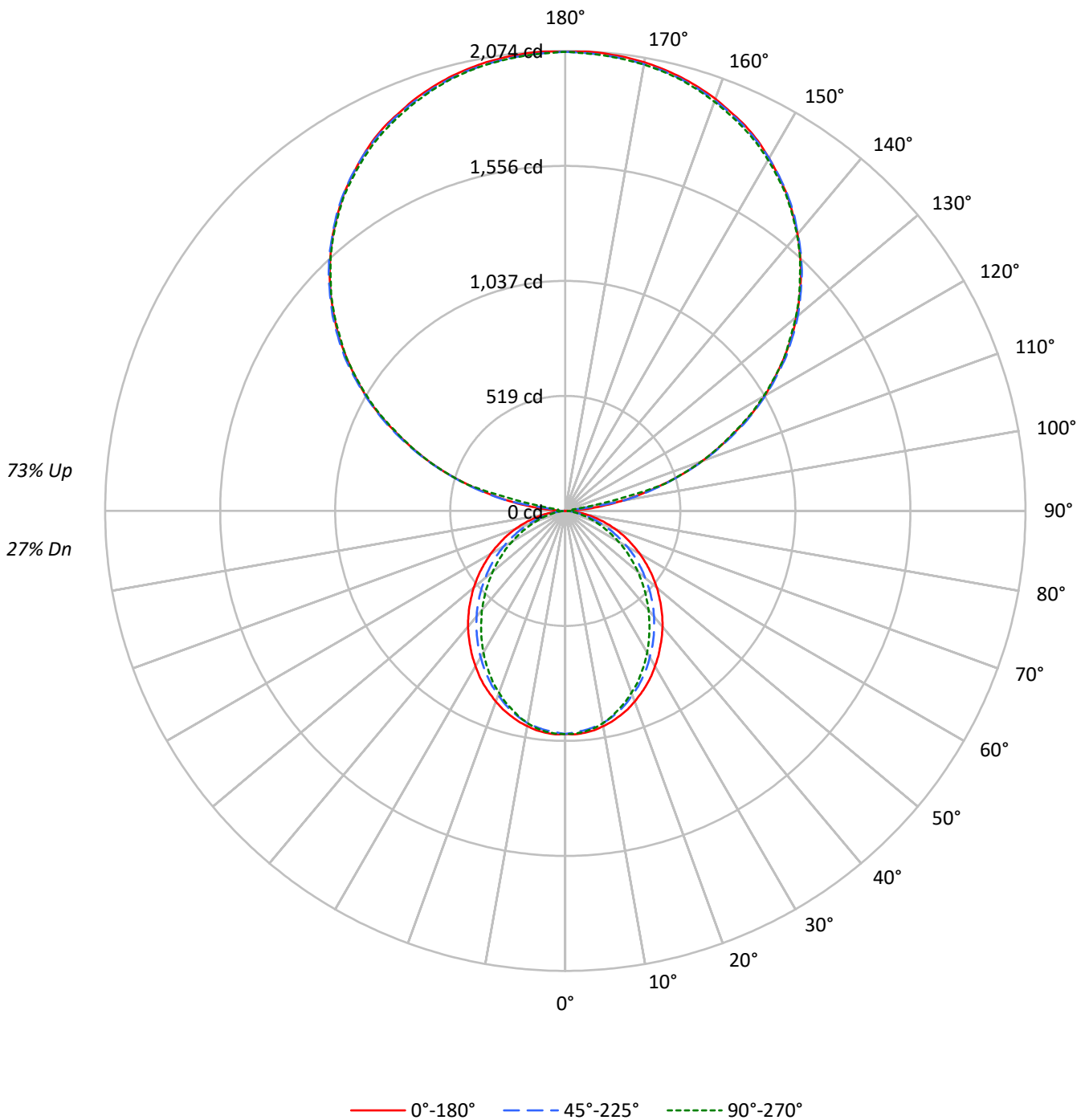
Test Method: LM-79-2019  
Report Number: P1036016  
REPORT IS A COMBINATION OF REPORTS P1006696 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B610D1560UB35-4F0-XX-W2A-F  
Description: Define 5 Regressed 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: 8737.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 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: P1036016  
CATALOG NUMBER: S125RDIW-B610D1560UB35-4F0-XX-W2A-F

### Luminous Intensity Polar Plot





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**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°	6446	6446	6446
5°	6447	6286	6295
10°	6384	6127	6073
15°	6294	5905	5780
20°	6182	5639	5473
25°	6054	5378	5144
30°	5896	5092	4799
35°	5736	4801	4432
40°	5584	4502	4073
45°	5400	4180	3698
50°	5215	3838	3316
55°	4999	3501	2920
60°	4779	3115	2510
65°	4515	2684	2066
70°	4209	2186	1626
75°	3786	1644	1185
80°	3193	1065	799
85°	2390	571	450

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5400 cd/sqm



TEST NUMBER: P1036016

CATALOG NUMBER: S125RDIW-B610D1560UB35-4F0-XX-W2A-F

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	1.1
10°-20°	264.6	3.0
20°-30°	383.7	4.4
30°-40°	437.1	5.0
40°-50°	426.1	4.9
50°-60°	358.6	4.1
60°-70°	251.3	2.9
70°-80°	128.8	1.5
80°-90°	35.2	0.4
90°-100°	70.2	0.8
100°-110°	467.1	5.3
110°-120°	841.1	9.6
120°-130°	1079.6	12.4
130°-140°	1161.1	13.3
140°-150°	1089.7	12.5
150°-160°	881.5	10.1
160°-170°	570.1	6.5
170°-180°	196.6	2.3
0°-30°	743.0	8.5
0°-40°	1180.1	13.5
0°-60°	1964.8	22.5
0°-90°	2380.1	27.2
90°-120°	1378.3	15.8
90°-150°	4708.7	53.9
90°-180°	6357.0	72.8
0°-180°	8737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1002	993	1001	999	95
15°	955	951	935	934	927	269
25°	866	855	827	817	808	399
35°	746	728	694	672	661	467
45°	611	589	547	517	505	471
55°	464	439	397	362	350	414
65°	314	288	248	217	206	311
75°	167	144	112	96	90	177
85°	42	28	24	24	23	46
90°	2	14	24	32	37	7
95°	87	83	24	32	32	107
105°	451	457	457	457	456	478
115°	847	854	856	850	841	839
125°	1204	1215	1215	1209	1204	1076
135°	1502	1511	1508	1505	1496	1158
145°	1741	1744	1744	1746	1737	1089
155°	1918	1908	1911	1916	1904	884
165°	2023	2014	2016	2025	2013	572
175°	2070	2060	2062	2074	2060	197
180°	2070	2070	2070	2070	2070	



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CATALOG NUMBER: S125RDIW-B610D1560UB35-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	1008.4	1006.1	998.5	1006.1	1005.3
5°	1004.6	1001.5	993.2	1000.8	999.2
7.5°	997.0	993.9	984.0	990.1	988.6
10°	985.6	983.3	972.6	974.9	972.6
12.5°	972.6	969.6	954.4	955.9	952.1
15°	955.2	950.6	934.6	933.9	927.0
17.5°	936.9	930.1	911.1	907.3	902.0
20°	914.9	907.3	883.0	879.2	872.3
22.5°	890.6	883.0	857.1	848.8	843.5
25°	866.3	854.9	826.7	816.9	808.5
27.5°	838.9	825.2	795.6	782.7	774.3
30°	808.5	794.1	762.2	744.7	737.8
32.5°	778.9	761.4	728.7	709.0	699.8
35°	746.2	728.0	693.8	671.7	661.1
37.5°	715.0	693.0	658.1	632.2	621.6
40°	681.6	658.8	622.3	593.5	584.3
42.5°	646.7	623.1	585.1	557.7	543.3
45°	610.9	588.9	547.1	516.7	505.3
47.5°	573.7	550.9	509.1	478.0	465.0
50°	538.8	513.7	470.4	438.4	427.1
52.5°	500.8	474.9	434.6	399.7	388.3
55°	463.5	439.2	396.7	362.5	350.3
57.5°	425.5	399.7	358.7	325.2	314.6
60°	389.1	362.5	321.4	288.0	276.6
62.5°	350.3	325.2	283.4	253.0	241.6
65°	313.8	288.0	247.7	217.3	205.9
67.5°	277.4	251.5	212.8	183.9	174.8
70°	240.1	214.3	176.3	152.7	143.6
72.5°	203.6	178.6	143.6	122.3	117.0
75°	167.2	144.4	112.5	95.7	90.4
77.5°	129.9	111.7	85.1	72.2	67.6
80°	98.8	80.5	59.3	52.4	50.9
82.5°	68.4	52.4	39.5	37.2	36.5
85°	41.8	28.1	24.3	23.6	22.8
87.5°	17.5	12.2	11.4	11.4	10.6
90°	1.5	13.8	24.5	32.2	36.8
92.5°	29.1	15.3	24.5	32.2	33.7
95°	87.4	82.8	24.5	32.2	32.2
97.5°	164.1	173.3	27.6	30.7	32.2
100°	256.2	260.8	266.9	38.4	32.2
102.5°	349.8	355.9	359.0	362.0	233.2
105°	451.0	457.2	457.2	457.2	455.6
107.5°	555.3	555.3	558.4	559.9	553.8
110°	656.6	656.6	659.6	655.0	656.6



TEST NUMBER: P1036016

CATALOG NUMBER: S125RDIW-B610D1560UB35-4F0-XX-W2A-F

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	751.7	756.3	757.8	751.7	748.6
115°	846.8	854.5	856.0	849.9	840.7
117.5°	946.5	946.5	952.7	943.5	940.4
120°	1038.6	1037.0	1041.6	1038.6	1030.9
122.5°	1119.9	1127.5	1129.1	1126.0	1116.8
125°	1204.2	1215.0	1215.0	1208.8	1204.2
127.5°	1285.5	1293.2	1291.7	1288.6	1276.3
130°	1359.2	1366.9	1368.4	1363.8	1356.1
132.5°	1432.8	1442.0	1437.4	1437.4	1429.7
135°	1501.9	1511.1	1508.0	1504.9	1495.7
137.5°	1566.3	1575.5	1572.4	1572.4	1564.7
140°	1629.2	1632.2	1630.7	1633.8	1624.6
142.5°	1685.9	1687.5	1690.5	1690.5	1681.3
145°	1741.2	1744.2	1744.2	1745.8	1736.6
147.5°	1790.3	1790.3	1791.8	1793.3	1782.6
150°	1836.3	1833.2	1836.3	1839.3	1827.1
152.5°	1880.8	1873.1	1876.2	1879.2	1868.5
155°	1917.6	1908.4	1911.4	1916.0	1903.8
157.5°	1946.7	1942.1	1942.1	1946.7	1934.5
160°	1977.4	1968.2	1969.7	1975.9	1963.6
162.5°	2002.0	1992.8	1994.3	2003.5	1989.7
165°	2023.4	2014.2	2015.8	2025.0	2012.7
167.5°	2040.3	2031.1	2032.6	2043.4	2029.6
170°	2054.1	2043.4	2044.9	2057.2	2043.4
172.5°	2063.3	2052.6	2055.6	2066.4	2052.6
175°	2069.5	2060.3	2061.8	2074.1	2060.3
177.5°	2074.1	2064.9	2066.4	2077.1	2064.9
180°	2069.5	2069.5	2069.5	2069.5	2069.5

(END OF REPORT)