

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: P1035715

Luminaire Tested: S125RDIW-B1090D1560UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035715
REPORT IS A COMBINATION OF REPORTS P1006011 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D1560UB27-4F0-XX-W2A-F1
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

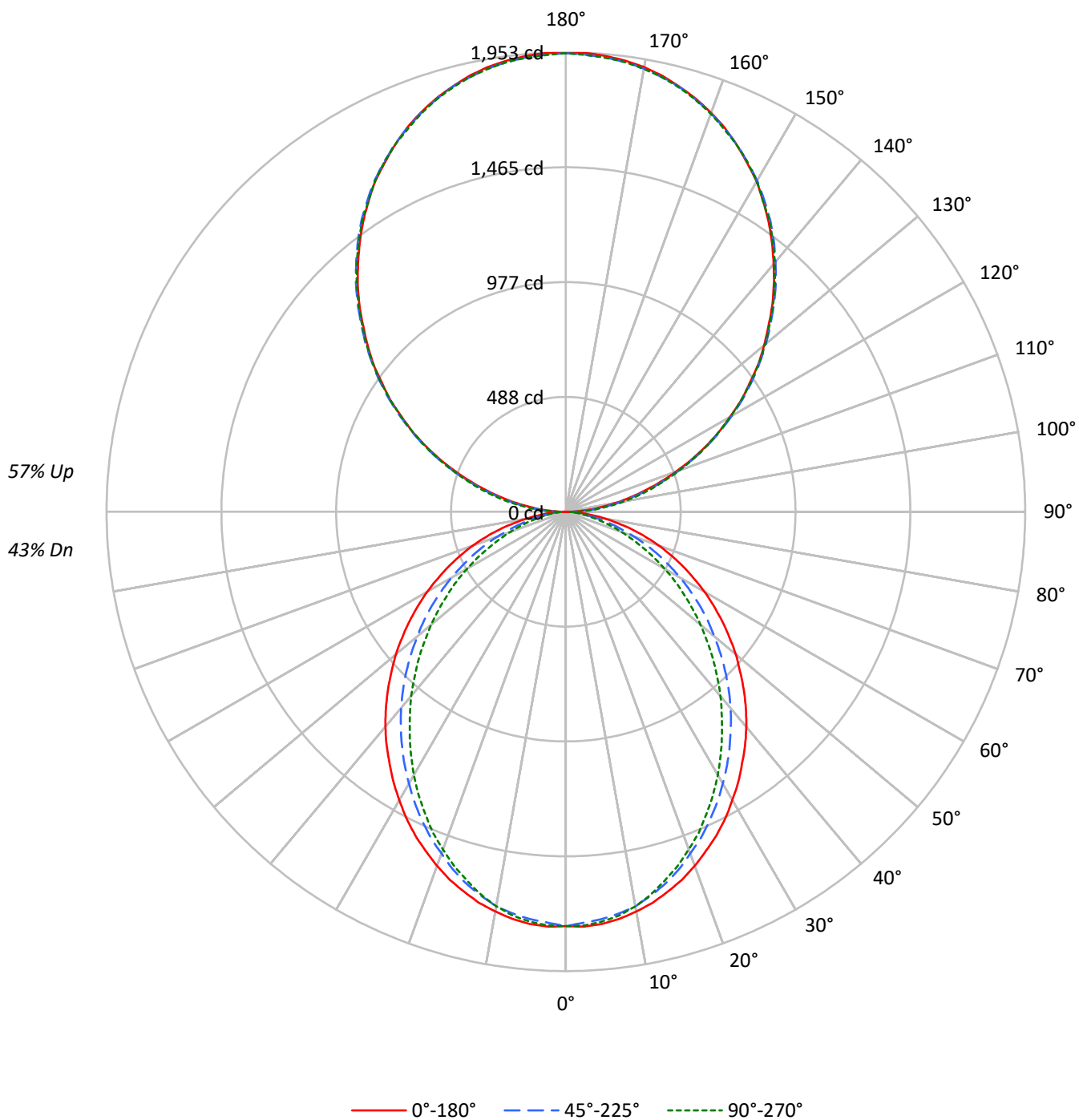
Lumens per Lamp: N/A
Luminaire Lumens: 9606.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 99
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: P1035715

CATALOG NUMBER: S125RDIW-B1090D1560UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1035715

CATALOG NUMBER: S125RDIW-B1090D1560UB27-4F0-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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	97	92	89	85	88	85	81	78	70	68	66	57	55	54	45	44	43
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	74	63	55	49	67	58	51	46	48	43	39	40	36	33	31	29	27
5	68	56	48	42	62	52	45	40	43	38	34	36	32	29	28	26	23
6	62	50	42	37	57	47	39	34	39	34	30	32	28	25	26	23	21
7	58	45	38	32	53	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11287	11287	11287
5°	11288	11005	11023
10°	11178	10728	10633
15°	11019	10340	10121
20°	10824	9873	9584
25°	10599	9417	9008
30°	10325	8915	8403
35°	10044	8406	7760
40°	9777	7883	7133
45°	9456	7319	6475
50°	9130	6720	5806
55°	8753	6129	5113
60°	8367	5454	4394
65°	7907	4700	3619
70°	7369	3827	2848
75°	6627	2877	2075
80°	5591	1864	1399
85°	4185	1002	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9456 cd/sqm

TEST NUMBER: P1035715

CATALOG NUMBER: S125RDIW-B1090D1560UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.7
10°-20°	463.3	4.8
20°-30°	671.8	7.0
30°-40°	765.4	8.0
40°-50°	746.0	7.8
50°-60°	627.8	6.5
60°-70°	440.0	4.6
70°-80°	225.6	2.3
80°-90°	59.3	0.6
90°-100°	129.6	1.3
100°-110°	385.1	4.0
110°-120°	653.2	6.8
120°-130°	859.9	9.0
130°-140°	963.5	10.0
140°-150°	944.4	9.8
150°-160°	793.3	8.3
160°-170°	527.3	5.5
170°-180°	184.5	1.9
0°-30°	1300.9	13.5
0°-40°	2066.3	21.5
0°-60°	3440.2	35.8
0°-90°	4165.0	43.4
90°-120°	1167.9	12.2
90°-150°	3935.8	41.0
90°-180°	5441.0	56.6
0°-180°	9606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1759	1754	1739	1752	1750	167
15°	1672	1664	1636	1635	1623	472
25°	1517	1497	1448	1430	1416	698
35°	1307	1275	1215	1176	1158	818
45°	1070	1031	958	905	885	825
55°	812	769	694	635	613	726
65°	550	504	434	380	361	544
75°	293	253	197	168	158	309
85°	73	49	43	41	40	80
90°	2	14	24	32	36	11
95°	99	102	117	127	130	103
105°	346	354	363	372	376	369
115°	654	660	663	662	660	647
125°	954	963	965	962	960	855
135°	1241	1250	1252	1252	1246	957
145°	1504	1510	1514	1514	1510	940
155°	1720	1720	1722	1728	1720	792
165°	1871	1868	1869	1875	1866	528
175°	1945	1939	1939	1948	1937	185
180°	1950	1950	1950	1950	1950	

TEST NUMBER: P1035715

CATALOG NUMBER: S125RDIW-B1090D1560UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1765.6	1761.6	1748.3	1761.6	1760.3
5°	1758.9	1753.6	1739.0	1752.3	1749.6
7.5°	1745.6	1740.3	1723.0	1733.6	1731.0
10°	1725.7	1721.7	1703.0	1707.0	1703.0
12.5°	1703.0	1697.7	1671.1	1673.8	1667.1
15°	1672.4	1664.5	1636.5	1635.2	1623.2
17.5°	1640.5	1628.5	1595.3	1588.6	1579.3
20°	1601.9	1588.6	1546.0	1539.4	1527.4
22.5°	1559.3	1546.0	1500.8	1486.2	1476.9
25°	1516.8	1496.8	1447.6	1430.3	1415.7
27.5°	1468.9	1444.9	1393.0	1370.4	1355.8
30°	1415.7	1390.4	1334.5	1303.9	1291.9
32.5°	1363.8	1333.2	1276.0	1241.4	1225.4
35°	1306.6	1274.6	1214.7	1176.2	1157.5
37.5°	1252.0	1213.4	1152.2	1107.0	1088.4
40°	1193.5	1153.5	1089.7	1039.1	1023.2
42.5°	1132.3	1091.0	1024.5	976.6	951.3
45°	1069.7	1031.1	958.0	904.7	884.8
47.5°	1004.5	964.6	891.4	836.9	814.3
50°	943.3	899.4	823.6	767.7	747.7
52.5°	876.8	831.6	761.0	699.8	679.9
55°	811.6	769.0	694.5	634.6	613.4
57.5°	745.1	699.8	628.0	569.5	550.8
60°	681.2	634.6	562.8	504.3	484.3
62.5°	613.4	569.5	496.3	443.1	423.1
65°	549.5	504.3	433.7	380.5	360.6
67.5°	485.6	440.4	372.5	322.0	306.0
70°	420.4	375.2	308.7	267.4	251.5
72.5°	356.6	312.7	251.5	214.2	204.9
75°	292.7	252.8	196.9	167.6	158.3
77.5°	227.5	195.6	149.0	126.4	118.4
80°	173.0	141.0	103.8	91.8	89.1
82.5°	119.7	91.8	69.2	65.2	63.9
85°	73.2	49.2	42.6	41.2	39.9
87.5°	30.6	21.3	20.0	20.0	18.6
90°	1.5	13.7	24.3	31.9	36.4
92.5°	45.5	53.1	66.8	77.4	80.4
95°	98.6	101.6	116.8	127.4	130.5
97.5°	151.7	153.2	174.5	183.6	185.1
100°	212.4	212.4	232.1	245.8	248.8
102.5°	277.6	285.2	292.8	308.0	312.5
105°	345.9	353.5	362.6	371.7	376.3
107.5°	420.2	427.8	435.4	440.0	440.0
110°	497.6	505.2	509.8	514.3	512.8

TEST NUMBER: P1035715

CATALOG NUMBER: S125RDIW-B1090D1560UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	579.5	585.6	587.1	584.1
115°	653.9	660.0	663.0	661.5	660.0
117.5°	732.8	734.3	737.3	738.8	732.8
120°	805.6	813.2	814.7	814.7	808.6
122.5°	884.5	886.0	890.6	889.0	884.5
125°	954.3	963.4	964.9	961.9	960.3
127.5°	1031.7	1036.2	1037.7	1036.2	1033.2
130°	1099.9	1107.5	1110.5	1109.0	1106.0
132.5°	1168.2	1181.9	1180.3	1178.8	1174.3
135°	1241.0	1250.1	1251.6	1251.6	1245.6
137.5°	1309.3	1318.4	1321.4	1322.9	1315.4
140°	1374.5	1382.1	1386.7	1389.7	1382.1
142.5°	1439.8	1445.8	1451.9	1453.4	1445.8
145°	1503.5	1509.6	1514.1	1514.1	1509.6
147.5°	1562.7	1567.2	1570.2	1574.8	1562.7
150°	1621.8	1620.3	1626.4	1626.4	1623.3
152.5°	1670.4	1673.4	1674.9	1679.5	1673.4
155°	1720.4	1720.4	1722.0	1728.0	1720.4
157.5°	1766.0	1762.9	1764.4	1770.5	1759.9
160°	1805.4	1800.8	1802.4	1808.4	1800.8
162.5°	1840.3	1837.3	1837.3	1844.8	1835.7
165°	1870.6	1867.6	1869.1	1875.2	1866.1
167.5°	1897.9	1891.9	1891.9	1901.0	1891.9
170°	1919.2	1913.1	1913.1	1922.2	1911.6
172.5°	1934.4	1928.3	1928.3	1937.4	1928.3
175°	1945.0	1938.9	1938.9	1948.0	1937.4
177.5°	1952.6	1946.5	1945.0	1954.1	1943.5
180°	1949.5	1949.5	1949.5	1949.5	1949.5

(END OF REPORT)