

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: P1035726

Luminaire Tested: S125RDIW-B1090D1560UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035726
REPORT IS A COMBINATION OF REPORTS P1006042 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D1560UB40-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

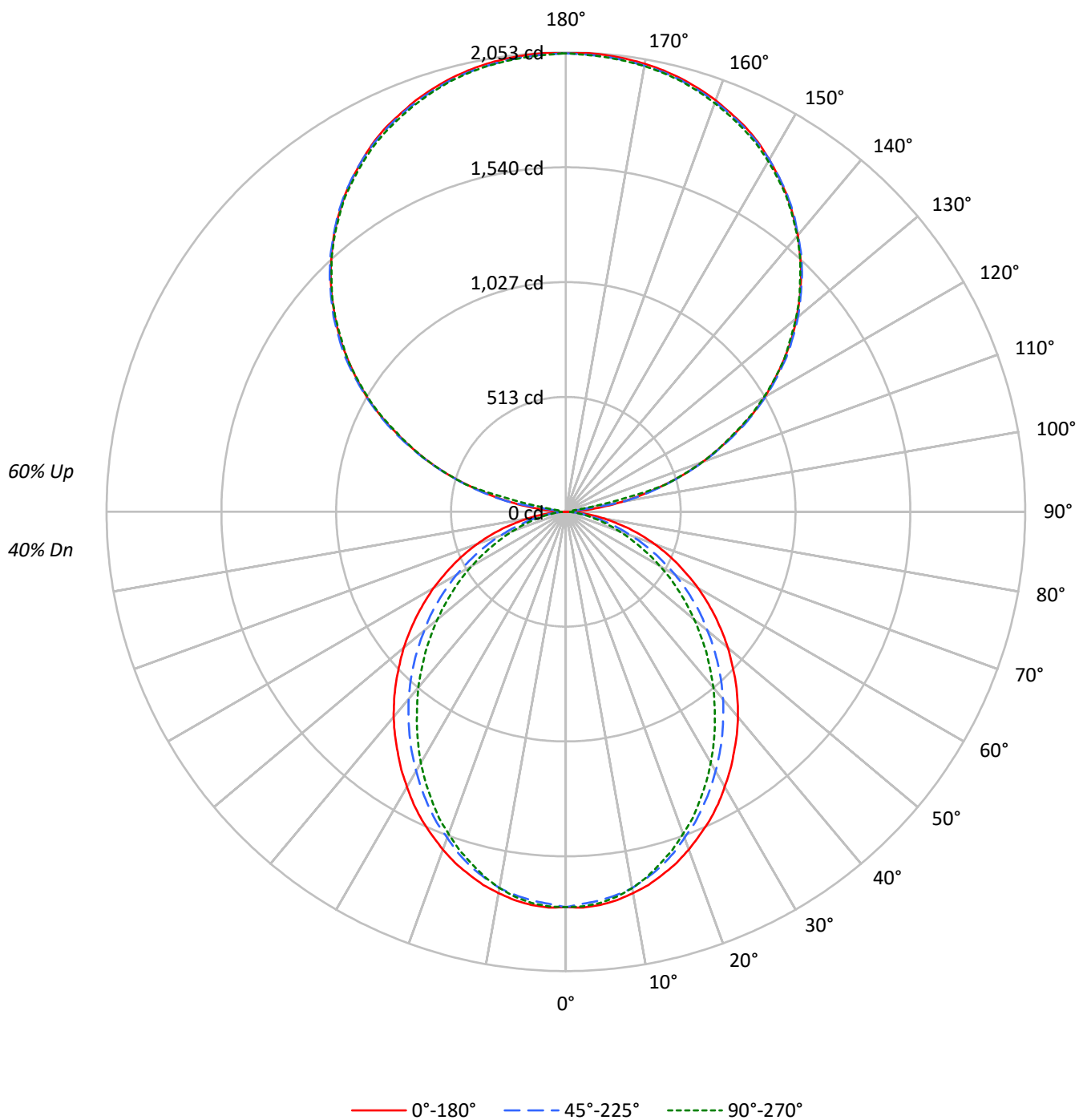
Lumens per Lamp: N/A
Luminaire Lumens: 10470.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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: P1035726

CATALOG NUMBER: S125RDIW-B1090D1560UB40-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1035726

CATALOG NUMBER: S125RDIW-B1090D1560UB40-4F0-XX-W2A-F

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	47	47	40
1	96	92	88	84	87	83	80	77	68	66	64	54	53	52	42	41	40	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	34	34	29
3	80	70	63	58	72	64	58	53	53	49	45	43	39	37	33	31	29	29	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	34	32	29	27	25	25	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	27	24	22	22	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	19	19	16
7	57	45	37	32	52	41	35	30	35	29	25	28	24	21	22	19	17	17	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	15	15	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	14	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	17	15	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11319	11319	11319
5°	11321	11037	11055
10°	11210	10759	10664
15°	11052	10369	10150
20°	10855	9901	9611
25°	10629	9444	9034
30°	10354	8941	8427
35°	10072	8431	7783
40°	9805	7906	7153
45°	9484	7339	6494
50°	9157	6739	5823
55°	8778	6147	5127
60°	8391	5470	4407
65°	7930	4714	3629
70°	7392	3838	2856
75°	6648	2886	2082
80°	5607	1869	1403
85°	4197	1004	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

TEST NUMBER: P1035726

CATALOG NUMBER: S125RDIW-B1090D1560UB40-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	1.6
10°-20°	464.7	4.4
20°-30°	673.8	6.4
30°-40°	767.6	7.3
40°-50°	748.2	7.1
50°-60°	629.6	6.0
60°-70°	441.2	4.2
70°-80°	226.2	2.2
80°-90°	59.5	0.6
90°-100°	69.5	0.7
100°-110°	462.4	4.4
110°-120°	832.6	8.0
120°-130°	1068.7	10.2
130°-140°	1149.4	11.0
140°-150°	1078.8	10.3
150°-160°	872.6	8.3
160°-170°	564.3	5.4
170°-180°	194.6	1.9
0°-30°	1304.7	12.5
0°-40°	2072.3	19.8
0°-60°	3450.1	33.0
0°-90°	4177.0	39.9
90°-120°	1364.5	13.0
90°-150°	4661.4	44.5
90°-180°	6293.0	60.1
0°-180°	10470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1764	1759	1744	1757	1755	167
15°	1677	1669	1641	1640	1628	473
25°	1521	1501	1452	1434	1420	700
35°	1310	1278	1218	1180	1161	821
45°	1073	1034	961	907	887	827
55°	814	771	696	636	615	728
65°	551	506	435	382	362	546
75°	294	254	198	168	159	310
85°	73	49	43	41	40	80
90°	2	14	24	32	36	9
95°	87	82	24	32	32	106
105°	446	453	453	453	451	473
115°	838	846	847	841	832	831
125°	1192	1203	1203	1197	1192	1065
135°	1487	1496	1493	1490	1481	1146
145°	1724	1727	1727	1728	1719	1078
155°	1898	1889	1892	1897	1885	875
165°	2003	1994	1996	2005	1992	566
175°	2049	2040	2041	2053	2040	195
180°	2049	2049	2049	2049	2049	

TEST NUMBER: P1035726

CATALOG NUMBER: S125RDIW-B1090D1560UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1770.7	1766.7	1753.3	1766.7	1765.3
5°	1764.0	1758.7	1744.0	1757.3	1754.7
7.5°	1750.7	1745.3	1728.0	1738.6	1736.0
10°	1730.6	1726.6	1708.0	1712.0	1708.0
12.5°	1708.0	1702.6	1675.9	1678.6	1671.9
15°	1677.3	1669.3	1641.2	1639.9	1627.9
17.5°	1645.2	1633.2	1599.9	1593.2	1583.9
20°	1606.5	1593.2	1550.5	1543.8	1531.8
22.5°	1563.8	1550.5	1505.1	1490.5	1481.1
25°	1521.1	1501.1	1451.8	1434.4	1419.7
27.5°	1473.1	1449.1	1397.1	1374.4	1359.7
30°	1419.7	1394.4	1338.3	1307.7	1295.6
32.5°	1367.7	1337.0	1279.6	1244.9	1228.9
35°	1310.3	1278.3	1218.3	1179.6	1160.9
37.5°	1255.6	1216.9	1155.5	1110.2	1091.5
40°	1196.9	1156.9	1092.8	1042.1	1026.1
42.5°	1135.5	1094.2	1027.4	979.4	954.1
45°	1072.8	1034.1	960.7	907.4	887.3
47.5°	1007.4	967.4	894.0	839.3	816.6
50°	946.0	902.0	826.0	769.9	749.9
52.5°	879.3	834.0	763.2	701.9	681.8
55°	813.9	771.2	696.5	636.5	615.1
57.5°	747.2	701.9	629.8	571.1	552.4
60°	683.2	636.5	564.4	505.7	485.7
62.5°	615.1	571.1	497.7	444.3	424.3
65°	551.1	505.7	435.0	381.6	361.6
67.5°	487.0	441.7	373.6	322.9	306.9
70°	421.7	376.3	309.6	268.2	252.2
72.5°	357.6	313.6	252.2	214.8	205.5
75°	293.6	253.5	197.5	168.1	158.8
77.5°	228.2	196.1	149.4	126.8	118.8
80°	173.5	141.4	104.1	92.1	89.4
82.5°	120.1	92.1	69.4	65.4	64.0
85°	73.4	49.4	42.7	41.4	40.0
87.5°	30.7	21.3	20.0	20.0	18.7
90°	1.5	13.7	24.3	31.9	36.4
92.5°	28.9	15.2	24.3	31.9	33.4
95°	86.6	82.0	24.3	31.9	31.9
97.5°	162.5	171.6	27.3	30.4	31.9
100°	253.6	258.2	264.2	38.0	31.9
102.5°	346.2	352.3	355.4	358.4	230.8
105°	446.5	452.6	452.6	452.6	451.0
107.5°	549.7	549.7	552.8	554.3	548.2
110°	650.0	650.0	653.0	648.5	650.0

TEST NUMBER: P1035726

CATALOG NUMBER: S125RDIW-B1090D1560UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	744.1	748.7	750.2	744.1	741.1
115°	838.3	845.9	847.4	841.3	832.2
117.5°	937.0	937.0	943.1	934.0	930.9
120°	1028.1	1026.6	1031.1	1028.1	1020.5
122.5°	1108.6	1116.2	1117.7	1114.7	1105.6
125°	1192.1	1202.8	1202.8	1196.7	1192.1
127.5°	1272.6	1280.2	1278.7	1275.6	1263.5
130°	1345.5	1353.1	1354.6	1350.1	1342.5
132.5°	1418.4	1427.5	1423.0	1423.0	1415.4
135°	1486.7	1495.8	1492.8	1489.8	1480.7
137.5°	1550.5	1559.6	1556.6	1556.6	1549.0
140°	1612.8	1615.8	1614.3	1617.3	1608.2
142.5°	1669.0	1670.5	1673.5	1673.5	1664.4
145°	1723.6	1726.7	1726.7	1728.2	1719.1
147.5°	1772.2	1772.2	1773.8	1775.3	1764.6
150°	1817.8	1814.8	1817.8	1820.8	1808.7
152.5°	1861.8	1854.2	1857.3	1860.3	1849.7
155°	1898.3	1889.2	1892.2	1896.8	1884.6
157.5°	1927.1	1922.6	1922.6	1927.1	1915.0
160°	1957.5	1948.4	1949.9	1956.0	1943.8
162.5°	1981.8	1972.7	1974.2	1983.3	1969.7
165°	2003.1	1994.0	1995.5	2004.6	1992.4
167.5°	2019.8	2010.7	2012.2	2022.8	2009.1
170°	2033.4	2022.8	2024.3	2036.5	2022.8
172.5°	2042.6	2031.9	2035.0	2045.6	2031.9
175°	2048.6	2039.5	2041.0	2053.2	2039.5
177.5°	2053.2	2044.1	2045.6	2056.2	2044.1
180°	2048.6	2048.6	2048.6	2048.6	2048.6

(END OF REPORT)