

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: P1034756

Luminaire Tested: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034756
REPORT IS A COMBINATION OF REPORTS P1006199 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D1340UB2750-4F0-XX-W2A-F_3000K
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

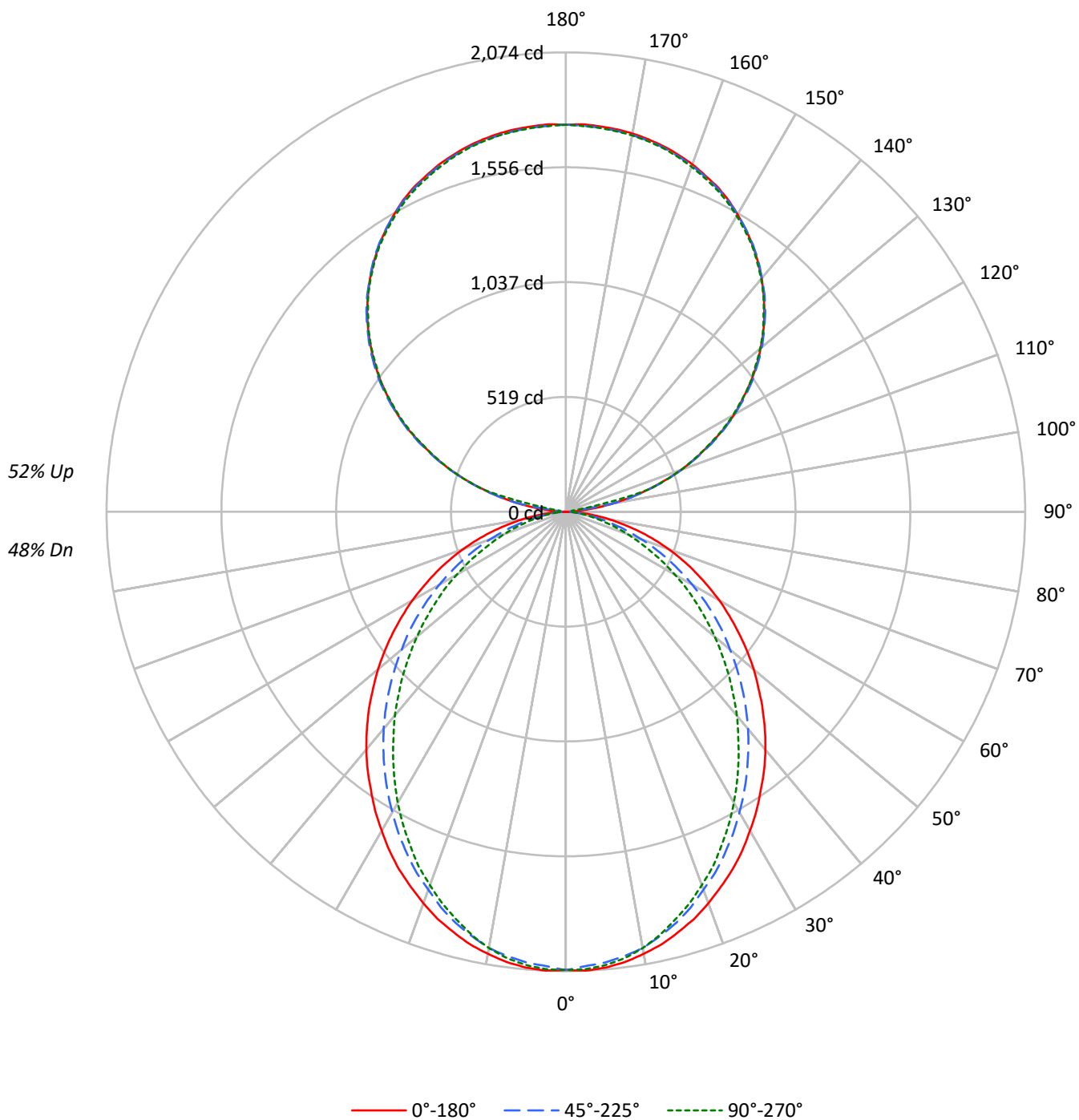
Lumens per Lamp: N/A
Luminaire Lumens: 10258.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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

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Luminous Intensity Polar Plot



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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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82		67	67	67		54
1	97	93	89	86	90	86	83	80	72	70	68		60	58	57		48
2	89	82	76	71	82	75	70	66	64	60	56		53	50	48		43
3	81	72	65	59	74	66	60	55	56	52	48		47	43	40		38
4	74	64	56	50	68	59	52	47	50	45	41		42	38	35		34
5	68	57	49	43	63	53	46	40	45	39	35		37	33	30		31
6	63	51	43	37	58	47	40	35	40	35	31		34	30	27		28
7	58	46	38	33	53	43	36	31	37	31	27		31	27	24		25
8	54	42	34	29	50	39	32	27	33	28	24		28	24	21		23
9	50	38	31	26	46	36	29	24	31	25	22		26	22	19		22
10	47	35	28	23	43	33	26	22	28	23	20		24	20	17		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13256	13256	13256
5°	13257	12925	12946
10°	13128	12599	12488
15°	12942	12144	11887
20°	12712	11595	11256
25°	12448	11059	10579
30°	12125	10471	9869
35°	11796	9872	9114
40°	11482	9259	8377
45°	11106	8595	7605
50°	10724	7891	6819
55°	10281	7199	6005
60°	9826	6406	5161
65°	9285	5520	4250
70°	8656	4494	3344
75°	7785	3379	2437
80°	6563	2189	1644
85°	4911	1176	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11106 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	1.9
10°-20°	544.2	5.3
20°-30°	789.0	7.7
30°-40°	898.9	8.8
40°-50°	876.2	8.5
50°-60°	737.4	7.2
60°-70°	516.7	5.0
70°-80°	264.9	2.6
80°-90°	68.7	0.7
90°-100°	59.3	0.6
100°-110°	394.4	3.8
110°-120°	710.2	6.9
120°-130°	911.5	8.9
130°-140°	980.4	9.6
140°-150°	920.1	9.0
150°-160°	744.3	7.3
160°-170°	481.3	4.7
170°-180°	166.0	1.6
0°-30°	1527.9	14.9
0°-40°	2426.8	23.7
0°-60°	4040.3	39.4
0°-90°	4890.6	47.7
90°-120°	1163.8	11.3
90°-150°	3975.8	38.8
90°-180°	5367.0	52.3
0°-180°	10258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2069	2069	2069	2069	2069	
5°	2066	2060	2042	2058	2055	196
15°	1964	1955	1922	1920	1906	554
25°	1781	1758	1700	1680	1663	820
35°	1534	1497	1427	1381	1360	961
45°	1256	1211	1125	1063	1039	969
55°	953	903	816	745	720	852
65°	645	592	509	447	424	639
75°	344	297	231	197	186	363
85°	86	58	50	48	47	94
90°	1	12	21	27	31	9
95°	74	70	21	27	27	90
105°	381	386	386	386	385	403
115°	715	722	723	718	710	709
125°	1017	1026	1026	1021	1017	908
135°	1268	1276	1273	1271	1263	978
145°	1470	1473	1473	1474	1466	919
155°	1619	1611	1614	1618	1607	746
165°	1708	1701	1702	1710	1699	483
175°	1747	1740	1741	1751	1740	166
180°	1747	1747	1747	1747	1747	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.9	2068.9	2068.9	2068.9	2068.9
2.5°	2073.6	2068.9	2053.2	2068.9	2067.3
5°	2065.7	2059.5	2042.3	2057.9	2054.8
7.5°	2050.1	2043.9	2023.6	2036.1	2032.9
10°	2026.7	2022.0	2000.1	2004.8	2000.1
12.5°	2000.1	1993.9	1962.6	1965.7	1957.9
15°	1964.2	1954.8	1922.0	1920.4	1906.4
17.5°	1926.7	1912.6	1873.5	1865.7	1854.8
20°	1881.4	1865.7	1815.7	1807.9	1793.9
22.5°	1831.4	1815.7	1762.6	1745.4	1734.5
25°	1781.4	1757.9	1700.1	1679.8	1662.6
27.5°	1725.1	1697.0	1636.0	1609.5	1592.3
30°	1662.6	1632.9	1567.3	1531.3	1517.3
32.5°	1601.7	1565.7	1498.5	1457.9	1439.1
35°	1534.5	1497.0	1426.6	1381.3	1359.5
37.5°	1470.4	1425.1	1353.2	1300.1	1278.2
40°	1401.6	1354.8	1279.8	1220.4	1201.6
42.5°	1329.8	1281.3	1203.2	1146.9	1117.3
45°	1256.3	1211.0	1125.1	1062.6	1039.1
47.5°	1179.8	1132.9	1046.9	982.9	956.3
50°	1107.9	1056.3	967.2	901.6	878.2
52.5°	1029.7	976.6	893.8	821.9	798.5
55°	953.2	903.2	815.7	745.4	720.4
57.5°	875.1	821.9	737.5	668.8	646.9
60°	800.0	745.4	661.0	592.2	568.8
62.5°	720.4	668.8	582.8	520.3	496.9
65°	645.3	592.2	509.4	446.9	423.5
67.5°	570.3	517.2	437.5	378.1	359.4
70°	493.8	440.7	362.5	314.1	295.3
72.5°	418.8	367.2	295.3	251.6	240.6
75°	343.8	296.9	231.3	196.9	185.9
77.5°	267.2	229.7	175.0	148.4	139.1
80°	203.1	165.6	121.9	107.8	104.7
82.5°	140.6	107.8	81.3	76.6	75.0
85°	85.9	57.8	50.0	48.4	46.9
87.5°	35.9	25.0	23.4	23.4	21.9
90°	1.3	11.7	20.7	27.2	31.1
92.5°	24.6	13.0	20.7	27.2	28.5
95°	73.8	69.9	20.7	27.2	27.2
97.5°	138.6	146.4	23.3	25.9	27.2
100°	216.3	220.2	225.4	32.4	27.2
102.5°	295.3	300.5	303.1	305.7	196.9
105°	380.8	386.0	386.0	386.0	384.7
107.5°	468.9	468.9	471.5	472.8	467.6
110°	554.4	554.4	557.0	553.1	554.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	634.7	638.6	639.9	634.7	632.1
115°	715.0	721.5	722.8	717.6	709.8
117.5°	799.2	799.2	804.4	796.6	794.0
120°	876.9	875.6	879.5	876.9	870.4
122.5°	945.5	952.0	953.3	950.7	943.0
125°	1016.8	1025.9	1025.9	1020.7	1016.8
127.5°	1085.4	1091.9	1090.6	1088.0	1077.7
130°	1147.6	1154.1	1155.4	1151.5	1145.0
132.5°	1209.8	1217.6	1213.7	1213.7	1207.2
135°	1268.1	1275.8	1273.3	1270.7	1262.9
137.5°	1322.5	1330.2	1327.7	1327.7	1321.2
140°	1375.6	1378.2	1376.9	1379.5	1371.7
142.5°	1423.5	1424.8	1427.4	1427.4	1419.6
145°	1470.1	1472.7	1472.7	1474.0	1466.2
147.5°	1511.6	1511.6	1512.9	1514.2	1505.1
150°	1550.4	1547.9	1550.4	1553.0	1542.7
152.5°	1588.0	1581.5	1584.1	1586.7	1577.6
155°	1619.1	1611.3	1613.9	1617.8	1607.4
157.5°	1643.7	1639.8	1639.8	1643.7	1633.3
160°	1669.6	1661.8	1663.1	1668.3	1657.9
162.5°	1690.3	1682.6	1683.9	1691.6	1680.0
165°	1708.5	1700.7	1702.0	1709.8	1699.4
167.5°	1722.7	1714.9	1716.2	1725.3	1713.6
170°	1734.4	1725.3	1726.6	1737.0	1725.3
172.5°	1742.1	1733.1	1735.7	1744.7	1733.1
175°	1747.3	1739.6	1740.8	1751.2	1739.6
177.5°	1751.2	1743.4	1744.7	1753.8	1743.4
180°	1747.3	1747.3	1747.3	1747.3	1747.3

(END OF REPORT)