

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: P1034746

Luminaire Tested: S125RDIW-B1270D1050UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034746
REPORT IS A COMBINATION OF REPORTS P1006155 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D1050UB2750-4F0-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

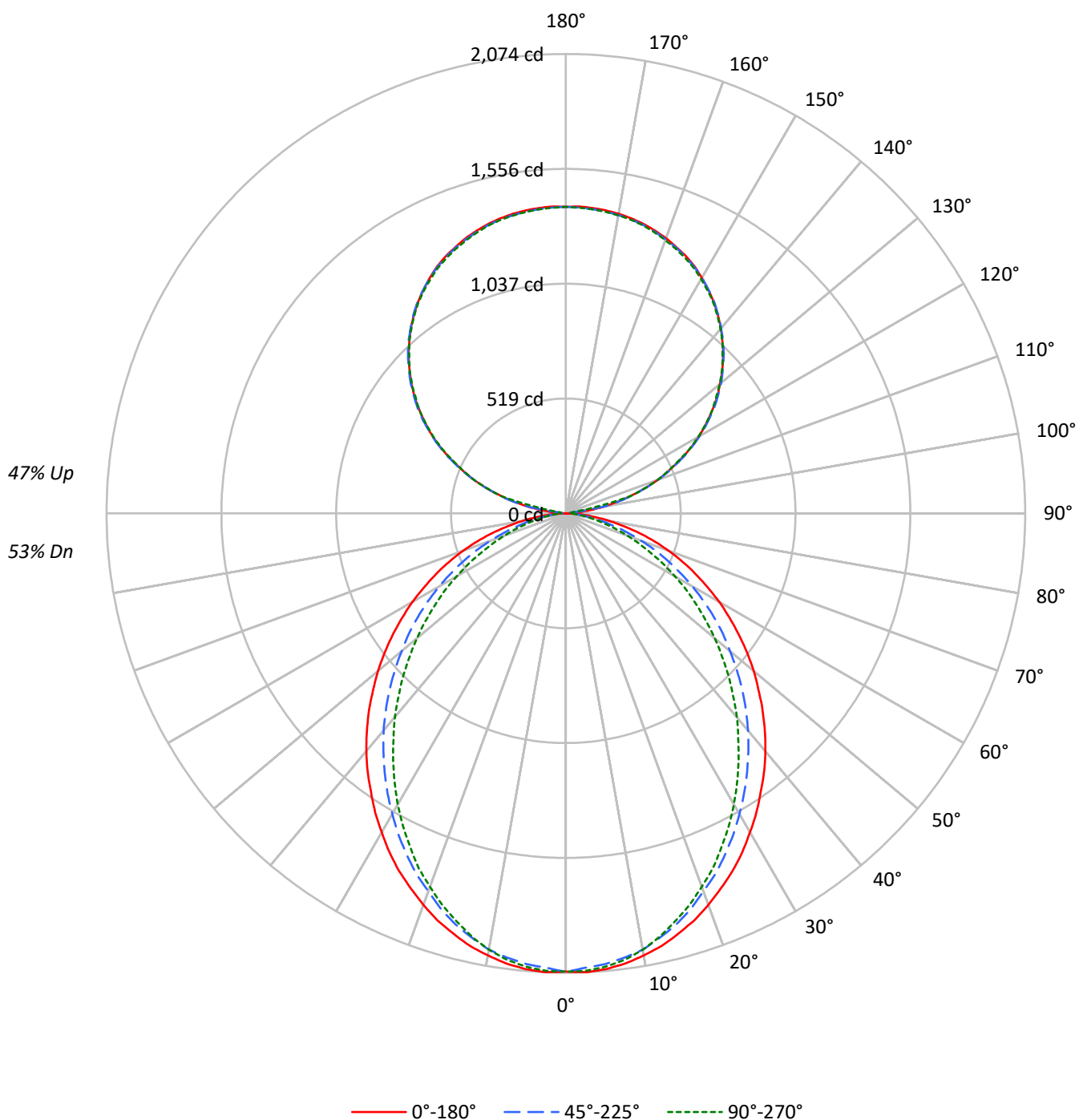
Lumens per Lamp: N/A
Luminaire Lumens: 9141.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	99	95	91	87	91	88	85	82	75	73	71	64	62	60	53	52	51
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	66	60	76	68	62	56	59	54	50	50	46	43	42	39	37
4	75	65	57	51	70	60	53	48	52	47	43	44	40	37	37	34	32
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	31	27	25
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20
9	51	39	32	27	48	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16

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	2.1
10°-20°	544.2	6.0
20°-30°	789.0	8.6
30°-40°	898.9	9.8
40°-50°	876.2	9.6
50°-60°	737.4	8.1
60°-70°	516.7	5.7
70°-80°	264.9	2.9
80°-90°	68.1	0.7
90°-100°	47.0	0.5
100°-110°	312.3	3.4
110°-120°	562.4	6.2
120°-130°	721.9	7.9
130°-140°	776.4	8.5
140°-150°	728.7	8.0
150°-160°	589.5	6.4
160°-170°	381.2	4.2
170°-180°	131.5	1.4
0°-30°	1527.9	16.7
0°-40°	2426.8	26.5
0°-60°	4040.3	44.2
0°-90°	4890.0	53.5
90°-120°	921.7	10.1
90°-150°	3148.8	34.4
90°-180°	4251.0	46.5
0°-180°	9141.0	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	9	16	22	25	8
95°	58	55	16	22	22	72
105°	302	306	306	306	305	320
115°	566	571	572	568	562	561
125°	805	812	812	808	805	719
135°	1004	1010	1008	1006	1000	774
145°	1164	1166	1166	1167	1161	728
155°	1282	1276	1278	1281	1273	591
165°	1353	1347	1348	1354	1346	382
175°	1384	1378	1379	1387	1378	132
180°	1384	1384	1384	1384	1384	

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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°	1.0	9.2	16.4	21.5	24.6
92.5°	19.5	10.3	16.4	21.5	22.6
95°	58.5	55.4	16.4	21.5	21.5
97.5°	109.8	115.9	18.5	20.5	21.5
100°	171.3	174.4	178.5	25.6	21.5
102.5°	233.9	238.0	240.0	242.1	155.9
105°	301.6	305.7	305.7	305.7	304.7
107.5°	371.4	371.4	373.4	374.4	370.3
110°	439.1	439.1	441.1	438.0	439.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.7	505.7	506.8	502.7	500.6
115°	566.3	571.4	572.4	568.3	562.2
117.5°	632.9	632.9	637.1	630.9	628.8
120°	694.5	693.5	696.5	694.5	689.4
122.5°	748.9	754.0	755.0	753.0	746.8
125°	805.3	812.5	812.5	808.4	805.3
127.5°	859.7	864.8	863.8	861.7	853.5
130°	908.9	914.0	915.1	912.0	906.8
132.5°	958.1	964.3	961.2	961.2	956.1
135°	1004.3	1010.5	1008.4	1006.4	1000.2
137.5°	1047.4	1053.5	1051.5	1051.5	1046.4
140°	1089.4	1091.5	1090.5	1092.5	1086.4
142.5°	1127.4	1128.4	1130.5	1130.5	1124.3
145°	1164.3	1166.4	1166.4	1167.4	1161.3
147.5°	1197.2	1197.2	1198.2	1199.2	1192.0
150°	1227.9	1225.9	1227.9	1230.0	1221.8
152.5°	1257.7	1252.6	1254.6	1256.7	1249.5
155°	1282.3	1276.2	1278.2	1281.3	1273.1
157.5°	1301.8	1298.7	1298.7	1301.8	1293.6
160°	1322.3	1316.2	1317.2	1321.3	1313.1
162.5°	1338.7	1332.6	1333.6	1339.8	1330.5
165°	1353.1	1346.9	1348.0	1354.1	1345.9
167.5°	1364.4	1358.2	1359.2	1366.4	1357.2
170°	1373.6	1366.4	1367.5	1375.7	1366.4
172.5°	1379.8	1372.6	1374.6	1381.8	1372.6
175°	1383.9	1377.7	1378.7	1386.9	1377.7
177.5°	1386.9	1380.8	1381.8	1389.0	1380.8
180°	1383.9	1383.9	1383.9	1383.9	1383.9

(END OF REPORT)