

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: P1035825

Luminaire Tested: S125RDIW-B1270D1560UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035825
REPORT IS A COMBINATION OF REPORTS P1006263 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D1560UB40-4F0-XX-W2A-F1
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

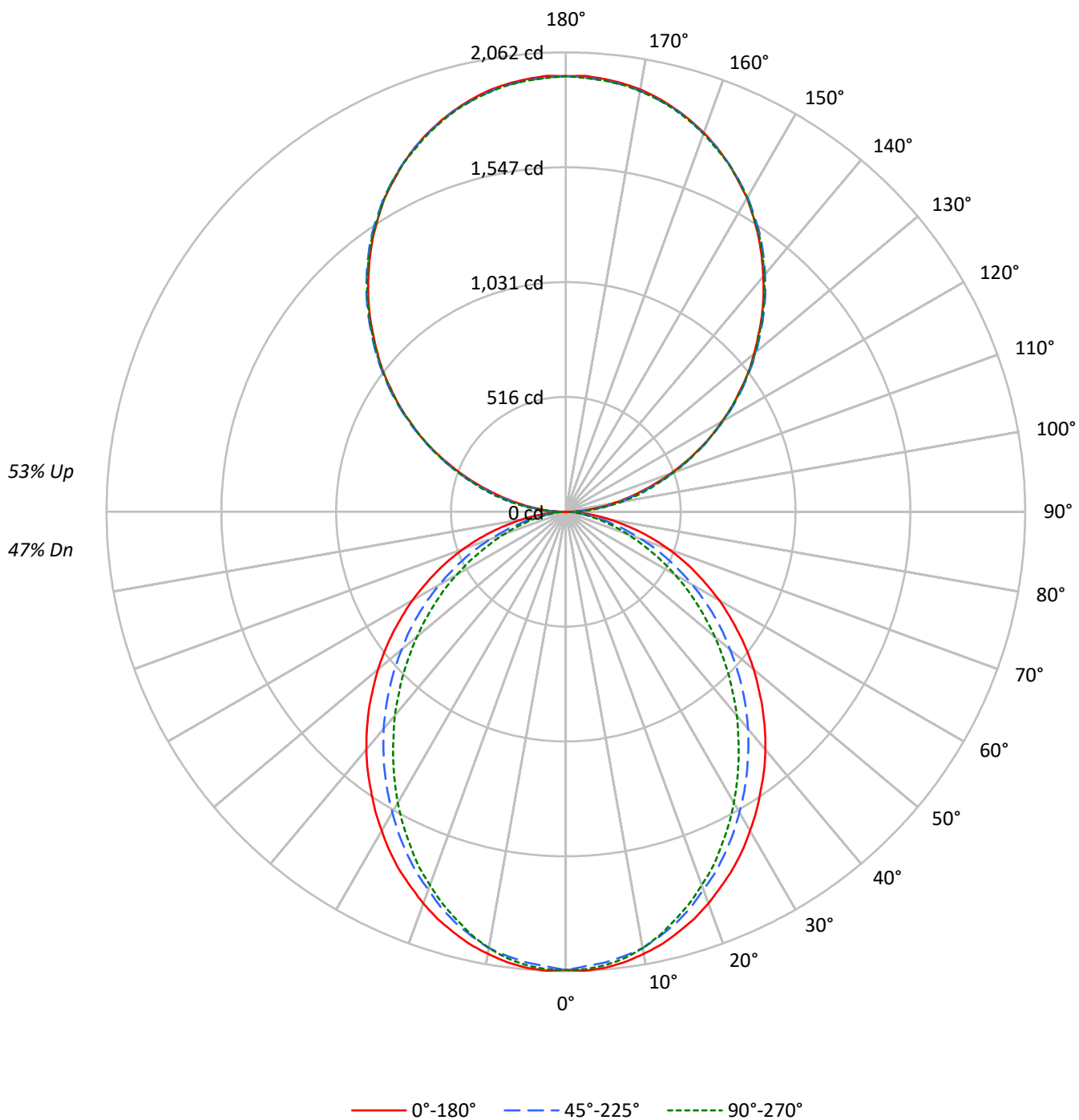
Lumens per Lamp: N/A
Luminaire Lumens: 10320.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46
2	89	82	76	70	81	75	70	66	63	59	56	52	50	47	42	40	39
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29
5	68	57	49	43	62	53	46	40	45	39	35	37	33	30	30	27	25
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13181	12851	12872
10°	13053	12527	12417
15°	12868	12074	11818
20°	12639	11528	11191
25°	12376	10996	10519
30°	12056	10411	9812
35°	11728	9816	9062
40°	11416	9205	8328
45°	11042	8546	7561
50°	10662	7846	6779
55°	10221	7158	5970
60°	9771	6369	5131
65°	9233	5489	4225
70°	8605	4468	3325
75°	7739	3359	2424
80°	6528	2176	1634
85°	4888	1169	921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	1.9
10°-20°	541.0	5.2
20°-30°	784.5	7.6
30°-40°	893.8	8.7
40°-50°	871.1	8.4
50°-60°	733.1	7.1
60°-70°	513.8	5.0
70°-80°	263.4	2.6
80°-90°	68.7	0.7
90°-100°	130.0	1.3
100°-110°	386.3	3.7
110°-120°	655.1	6.3
120°-130°	862.4	8.4
130°-140°	966.4	9.4
140°-150°	947.2	9.2
150°-160°	795.6	7.7
160°-170°	528.9	5.1
170°-180°	185.1	1.8
0°-30°	1519.1	14.7
0°-40°	2412.9	23.4
0°-60°	4017.2	38.9
0°-90°	4863.1	47.1
90°-120°	1171.4	11.4
90°-150°	3947.4	38.2
90°-180°	5457.0	52.9
0°-180°	10320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2054	2048	2031	2046	2043	195
15°	1953	1944	1911	1909	1895	551
25°	1771	1748	1690	1670	1653	815
35°	1526	1488	1418	1373	1352	955
45°	1249	1204	1119	1056	1033	963
55°	948	898	811	741	716	847
65°	642	589	506	444	421	635
75°	342	295	230	196	185	361
85°	86	58	50	48	47	94
90°	2	14	24	32	36	12
95°	99	102	117	128	131	103
105°	347	354	364	373	377	370
115°	656	662	665	663	662	649
125°	957	966	968	965	963	858
135°	1245	1254	1255	1255	1249	959
145°	1508	1514	1519	1519	1514	943
155°	1726	1726	1727	1733	1726	795
165°	1876	1873	1875	1881	1872	529
175°	1951	1945	1945	1954	1943	185
180°	1955	1955	1955	1955	1955	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.0	2057.0	2057.0	2057.0	2057.0
2.5°	2061.7	2057.0	2041.5	2057.0	2055.5
5°	2053.9	2047.7	2030.6	2046.1	2043.0
7.5°	2038.4	2032.2	2012.0	2024.4	2021.3
10°	2015.1	2010.4	1988.7	1993.3	1988.7
12.5°	1988.7	1982.4	1951.4	1954.5	1946.7
15°	1952.9	1943.6	1911.0	1909.4	1895.4
17.5°	1915.6	1901.7	1862.8	1855.0	1844.2
20°	1870.6	1855.0	1805.3	1797.6	1783.6
22.5°	1820.9	1805.3	1752.5	1735.4	1724.5
25°	1771.1	1747.8	1690.4	1670.2	1653.1
27.5°	1715.2	1687.3	1626.7	1600.2	1583.2
30°	1653.1	1623.6	1558.3	1522.6	1508.6
32.5°	1592.5	1556.7	1489.9	1449.5	1430.9
35°	1525.7	1488.4	1418.5	1373.4	1351.7
37.5°	1462.0	1416.9	1345.5	1292.6	1270.9
40°	1393.6	1347.0	1272.4	1213.4	1194.7
42.5°	1322.1	1274.0	1196.3	1140.4	1110.9
45°	1249.1	1204.1	1118.6	1056.5	1033.2
47.5°	1173.0	1126.4	1040.9	977.2	950.8
50°	1101.5	1050.3	961.7	896.4	873.1
52.5°	1023.8	971.0	888.7	817.2	793.9
55°	947.7	898.0	811.0	741.1	716.2
57.5°	870.0	817.2	733.3	665.0	643.2
60°	795.5	741.1	657.2	588.8	565.5
62.5°	716.2	665.0	579.5	517.4	494.1
65°	641.7	588.8	506.5	444.3	421.0
67.5°	567.1	514.3	435.0	376.0	357.3
70°	490.9	438.1	360.4	312.3	293.6
72.5°	416.4	365.1	293.6	250.1	239.3
75°	341.8	295.2	229.9	195.8	184.9
77.5°	265.7	228.4	174.0	147.6	138.3
80°	202.0	164.7	121.2	107.2	104.1
82.5°	139.8	107.2	80.8	76.1	74.6
85°	85.5	57.5	49.7	48.2	46.6
87.5°	35.7	24.9	23.3	23.3	21.8
90°	1.5	13.7	24.3	32.0	36.5
92.5°	45.6	53.3	67.0	77.6	80.6
95°	98.9	101.9	117.2	127.8	130.9
97.5°	152.2	153.7	175.0	184.1	185.6
100°	213.0	213.0	232.8	246.5	249.5
102.5°	278.5	286.1	293.7	308.9	313.4
105°	346.9	354.5	363.7	372.8	377.4
107.5°	421.5	429.1	436.7	441.3	441.3
110°	499.1	506.7	511.3	515.8	514.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.2	581.3	587.3	588.9	585.8
115°	655.8	661.9	664.9	663.4	661.9
117.5°	734.9	736.5	739.5	741.0	734.9
120°	808.0	815.6	817.1	817.1	811.0
122.5°	887.1	888.6	893.2	891.7	887.1
125°	957.1	966.2	967.7	964.7	963.2
127.5°	1034.7	1039.3	1040.8	1039.3	1036.2
130°	1103.2	1110.8	1113.8	1112.3	1109.2
132.5°	1171.6	1185.3	1183.8	1182.3	1177.7
135°	1244.7	1253.8	1255.3	1255.3	1249.2
137.5°	1313.1	1322.3	1325.3	1326.8	1319.2
140°	1378.6	1386.2	1390.7	1393.8	1386.2
142.5°	1444.0	1450.1	1456.2	1457.7	1450.1
145°	1507.9	1514.0	1518.6	1518.6	1514.0
147.5°	1567.2	1571.8	1574.9	1579.4	1567.2
150°	1626.6	1625.1	1631.2	1631.2	1628.1
152.5°	1675.3	1678.3	1679.8	1684.4	1678.3
155°	1725.5	1725.5	1727.0	1733.1	1725.5
157.5°	1771.1	1768.1	1769.6	1775.7	1765.1
160°	1810.7	1806.1	1807.7	1813.7	1806.1
162.5°	1845.7	1842.7	1842.7	1850.3	1841.1
165°	1876.1	1873.1	1874.6	1880.7	1871.6
167.5°	1903.5	1897.4	1897.4	1906.6	1897.4
170°	1924.8	1918.7	1918.7	1927.9	1917.2
172.5°	1940.0	1934.0	1934.0	1943.1	1934.0
175°	1950.7	1944.6	1944.6	1953.7	1943.1
177.5°	1958.3	1952.2	1950.7	1959.8	1949.2
180°	1955.3	1955.3	1955.3	1955.3	1955.3

(END OF REPORT)