

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: P1032326

Luminaire Tested: S123RDIW-B560D1535UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032326
REPORT IS A COMBINATION OF REPORTS P994508 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D1535UB50-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

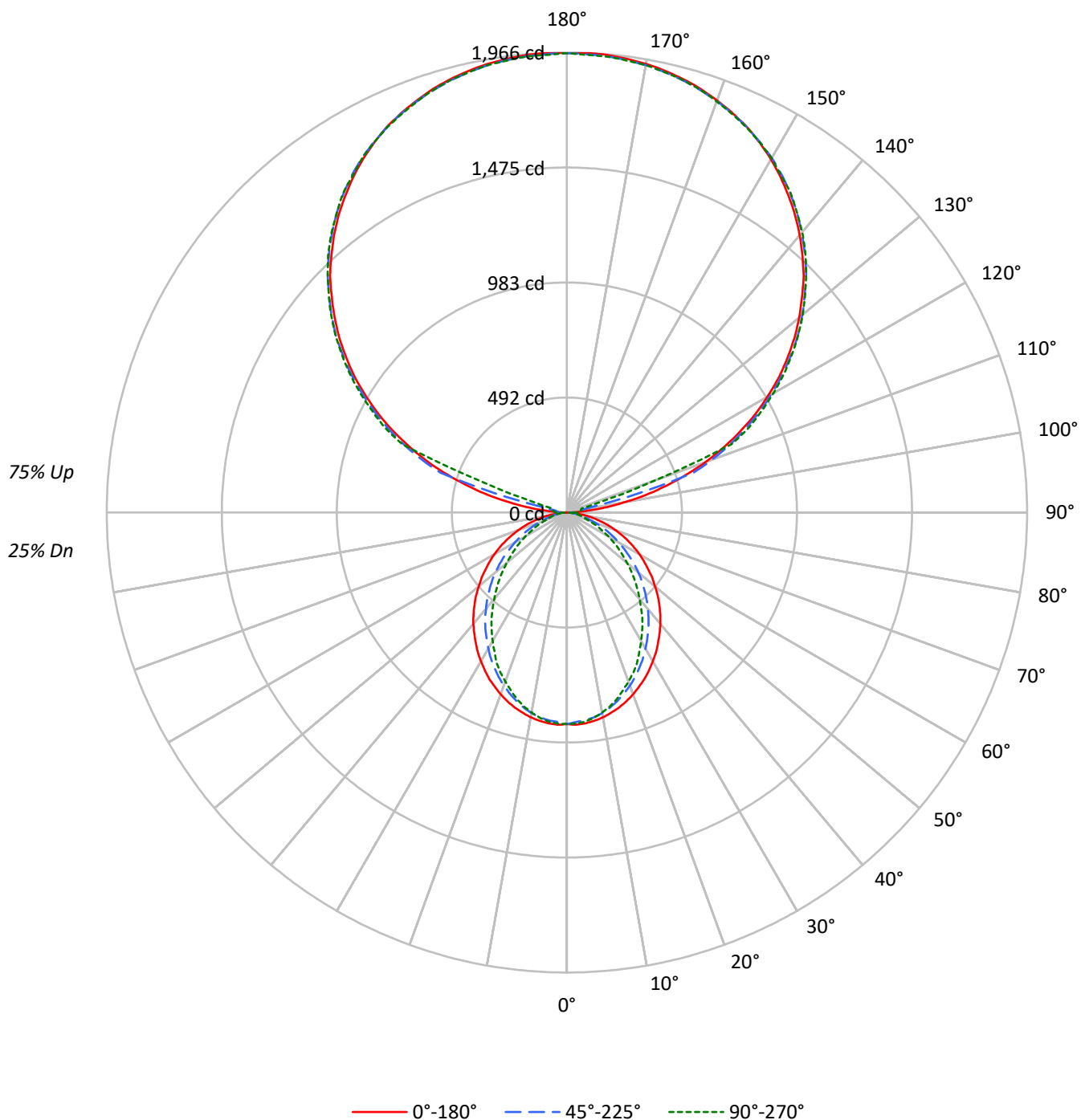
Lumens per Lamp: N/A
Luminaire Lumens: 8032.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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: P1032326

CATALOG NUMBER: S123RDIW-B560D1535UB50-4F0-XX-W2A-F

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	85	81	82	79	76	73	61	59	57	45	44	43	30	29	29
2	84	77	71	67	75	69	64	60	54	50	48	40	38	36	26	25	24
3	77	68	61	56	68	61	55	50	47	43	40	35	33	30	24	22	21
4	70	60	53	47	62	54	48	43	42	38	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	37	38	33	29	28	25	23	19	17	16
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	17	15	14
7	55	43	36	30	49	39	32	28	31	26	22	23	20	17	16	14	12
8	51	39	32	27	45	35	29	24	28	23	20	21	18	15	15	13	11
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10
10	44	32	26	21	39	29	23	19	23	19	16	18	15	12	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9734	9734	9734
5°	9750	9389	9364
10°	9673	9037	8858
15°	9547	8600	8305
20°	9383	8126	7685
25°	9213	7632	7099
30°	8996	7108	6406
35°	8771	6593	5774
40°	8559	6033	5077
45°	8288	5486	4450
50°	7991	4901	3801
55°	7681	4275	3206
60°	7385	3634	2602
65°	7003	2977	2032
70°	6523	2250	1451
75°	5831	1523	1149
80°	4978	1059	806
85°	3737	571	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8288 cd/sqm

TEST NUMBER: P1032326

CATALOG NUMBER: S123RDIW-B560D1535UB50-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.1
10°-20°	236.5	2.9
20°-30°	340.5	4.2
30°-40°	383.4	4.8
40°-50°	366.8	4.6
50°-60°	300.2	3.7
60°-70°	202.4	2.5
70°-80°	101.5	1.3
80°-90°	30.5	0.4
90°-100°	69.2	0.9
100°-110°	334.7	4.2
110°-120°	820.2	10.2
120°-130°	1041.3	13.0
130°-140°	1112.4	13.8
140°-150°	1040.2	13.0
150°-160°	839.0	10.4
160°-170°	541.5	6.7
170°-180°	186.6	2.3
0°-30°	662.0	8.2
0°-40°	1045.4	13.0
0°-60°	1712.5	21.3
0°-90°	2046.9	25.5
90°-120°	1224.2	15.2
90°-150°	4418.0	55.0
90°-180°	5985.0	74.5
0°-180°	8032.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	904	901	892	898	897	86
15°	862	854	834	830	825	243
25°	785	766	733	717	709	361
35°	679	653	607	576	562	425
45°	558	525	469	427	409	431
55°	424	388	326	283	268	380
65°	290	249	192	156	148	287
75°	153	118	78	70	69	163
85°	39	23	20	19	19	43
90°	2	16	35	41	44	7
95°	89	29	45	55	55	106
105°	435	451	319	61	64	461
115°	815	824	837	852	858	805
125°	1149	1161	1167	1170	1173	1027
135°	1431	1440	1445	1450	1445	1102
145°	1651	1661	1664	1667	1667	1034
155°	1819	1816	1817	1825	1816	838
165°	1918	1914	1912	1924	1914	542
175°	1963	1956	1957	1968	1956	187
180°	1963	1963	1963	1963	1963	

TEST NUMBER: P1032326

CATALOG NUMBER: S123RDIW-B560D1535UB50-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.3	904.3	904.3	904.3	904.3
2.5°	908.0	905.0	896.2	904.3	902.8
5°	904.3	900.6	891.8	898.4	897.0
7.5°	897.7	894.0	883.0	887.4	885.2
10°	888.9	883.8	870.6	871.3	867.6
12.5°	876.4	870.6	853.7	853.0	848.6
15°	862.5	854.4	833.9	830.2	825.1
17.5°	845.6	836.8	811.2	803.8	796.5
20°	826.6	814.8	787.0	777.4	768.6
22.5°	805.3	791.4	761.3	748.8	740.8
25°	784.8	766.4	732.7	717.3	709.2
27.5°	759.8	740.0	703.4	682.8	670.3
30°	734.2	712.2	671.1	646.1	634.4
32.5°	708.5	682.8	638.8	610.9	598.5
35°	679.2	652.7	607.3	575.7	562.5
37.5°	649.8	621.2	573.5	538.3	522.2
40°	621.9	589.7	537.6	499.5	482.6
42.5°	590.4	558.1	503.9	461.3	446.7
45°	558.1	525.1	468.7	426.9	409.3
47.5°	526.6	489.9	434.2	388.7	373.3
50°	491.4	456.9	397.5	352.0	335.2
52.5°	459.9	421.7	363.0	315.4	300.7
55°	423.9	388.0	325.6	283.1	268.4
57.5°	391.6	352.8	289.7	249.4	236.9
60°	357.9	317.6	256.7	217.1	204.6
62.5°	324.2	283.8	223.0	186.3	173.1
65°	289.7	249.4	192.2	156.2	148.2
67.5°	255.2	214.2	158.4	131.3	122.5
70°	221.5	181.9	130.5	104.9	96.8
72.5°	187.8	148.9	103.4	83.6	81.4
75°	153.3	118.1	77.7	70.4	68.9
77.5°	121.7	89.5	60.9	56.5	55.0
80°	91.7	61.6	46.2	44.0	42.5
82.5°	63.1	38.1	33.0	30.8	30.8
85°	38.9	22.7	20.5	19.1	19.1
87.5°	17.6	9.5	9.5	8.8	8.1
90°	1.5	16.0	35.0	40.8	43.8
92.5°	33.5	24.8	37.9	48.1	49.6
95°	89.0	29.2	45.2	55.4	55.4
97.5°	161.9	121.1	46.7	58.3	59.8
100°	246.5	275.7	48.1	59.8	61.3
102.5°	342.8	361.7	107.9	59.8	62.7
105°	434.7	450.7	319.4	61.3	64.2
107.5°	532.4	545.5	567.4	342.8	151.7
110°	630.1	641.8	657.8	609.7	401.1

TEST NUMBER: P1032326

CATALOG NUMBER: S123RDIW-B560D1535UB50-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	723.4	733.7	749.7	762.8	759.9
115°	815.3	824.1	837.2	851.8	857.6
117.5°	905.8	916.0	923.3	934.9	936.4
120°	988.9	1002.0	1006.4	1018.1	1018.1
122.5°	1073.5	1083.7	1089.5	1096.8	1098.3
125°	1149.4	1161.0	1166.9	1169.8	1172.7
127.5°	1225.2	1236.9	1244.2	1248.5	1245.6
130°	1295.2	1306.9	1312.7	1318.5	1315.6
132.5°	1362.3	1374.0	1378.3	1384.2	1379.8
135°	1430.9	1439.6	1445.4	1449.8	1445.4
137.5°	1489.2	1500.9	1503.8	1511.1	1508.2
140°	1547.5	1556.3	1560.7	1566.5	1563.6
142.5°	1601.5	1610.3	1614.6	1619.0	1614.6
145°	1651.1	1661.3	1664.2	1667.1	1667.1
147.5°	1699.2	1706.5	1709.4	1712.4	1705.1
150°	1743.0	1747.4	1750.3	1753.2	1748.8
152.5°	1782.4	1783.8	1785.3	1791.1	1783.8
155°	1818.8	1815.9	1817.4	1824.7	1815.9
157.5°	1848.0	1848.0	1846.5	1855.3	1843.6
160°	1874.3	1872.8	1871.3	1880.1	1869.9
162.5°	1899.1	1894.7	1893.2	1903.4	1894.7
165°	1918.0	1913.6	1912.2	1923.9	1913.6
167.5°	1934.1	1928.2	1928.2	1939.9	1928.2
170°	1947.2	1941.4	1941.4	1953.0	1941.4
172.5°	1955.9	1948.6	1950.1	1961.8	1948.6
175°	1963.2	1955.9	1957.4	1967.6	1955.9
177.5°	1966.1	1958.9	1960.3	1972.0	1957.4
180°	1963.2	1963.2	1963.2	1963.2	1963.2

(END OF REPORT)