

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: P1032293

Luminaire Tested: S123RDIW-B560D1320UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032293
REPORT IS A COMBINATION OF REPORTS P994427 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D1320UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

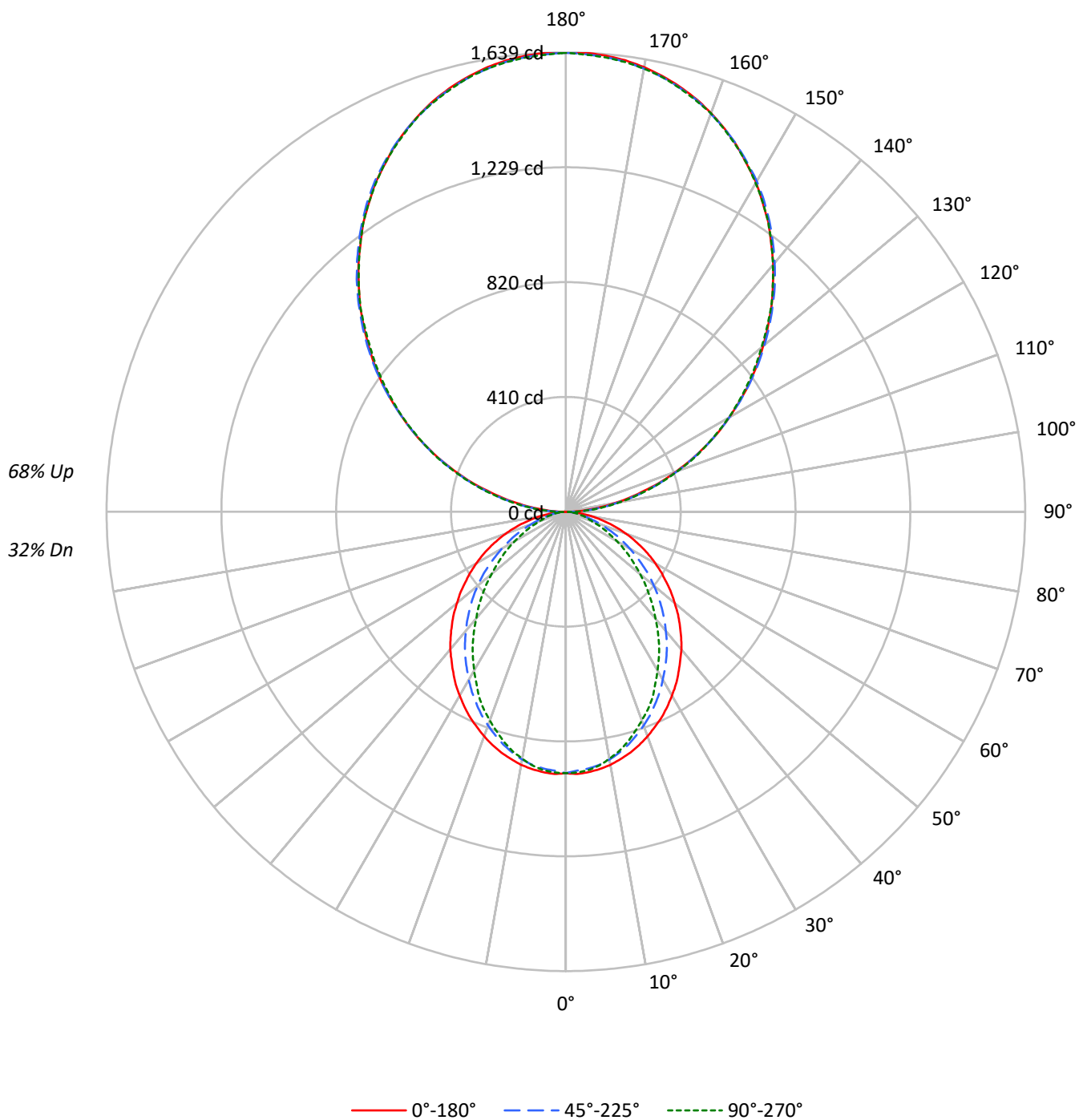
Lumens per Lamp: N/A
Luminaire Lumens: 6648.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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: P1032293

CATALOG NUMBER: S123RDIW-B560D1320UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1032293

CATALOG NUMBER: S123RDIW-B560D1320UB27-4F0-XX-W2A-F1

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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29
3	78	69	62	57	70	63	57	52	50	46	42	38	36	33	28	26	25
4	72	61	54	48	64	55	49	44	44	40	36	34	31	29	25	23	21
5	66	55	47	41	59	49	43	38	40	35	31	31	27	25	22	20	19
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16
7	56	44	36	31	50	40	33	29	32	28	24	25	22	19	19	16	15
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10038	10038	10038
5°	10055	9684	9658
10°	9977	9319	9136
15°	9846	8869	8564
20°	9677	8380	7926
25°	9501	7871	7321
30°	9277	7330	6607
35°	9045	6799	5956
40°	8827	6221	5236
45°	8548	5657	4590
50°	8241	5055	3920
55°	7922	4409	3306
60°	7616	3748	2683
65°	7223	3070	2095
70°	6726	2320	1496
75°	6014	1572	1186
80°	5130	1093	833
85°	3852	590	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8548 cd/sqm

TEST NUMBER: P1032293

CATALOG NUMBER: S123RDIW-B560D1320UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.3
10°-20°	243.9	3.7
20°-30°	351.2	5.3
30°-40°	395.5	5.9
40°-50°	378.3	5.7
50°-60°	309.7	4.7
60°-70°	208.8	3.1
70°-80°	104.7	1.6
80°-90°	30.8	0.5
90°-100°	105.4	1.6
100°-110°	319.1	4.8
110°-120°	543.2	8.2
120°-130°	714.6	10.7
130°-140°	803.2	12.1
140°-150°	789.7	11.9
150°-160°	664.8	10.0
160°-170°	442.6	6.7
170°-180°	155.0	2.3
0°-30°	682.7	10.3
0°-40°	1078.2	16.2
0°-60°	1766.1	26.6
0°-90°	2110.4	31.7
90°-120°	967.7	14.6
90°-150°	3275.2	49.3
90°-180°	4538.0	68.3
0°-180°	6648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	933	929	920	927	925	88
15°	890	881	860	856	851	251
25°	809	790	756	740	731	372
35°	700	673	626	594	580	438
45°	576	542	483	440	422	444
55°	437	400	336	292	277	392
65°	299	257	198	161	153	296
75°	158	122	80	73	71	168
85°	40	23	21	20	20	44
90°	1	14	31	36	39	8
95°	76	85	95	100	100	84
105°	289	292	304	304	306	310
115°	547	551	548	549	548	541
125°	800	804	801	796	791	714
135°	1038	1046	1045	1039	1037	800
145°	1259	1262	1266	1265	1259	787
155°	1442	1442	1443	1448	1440	664
165°	1571	1567	1567	1575	1566	443
175°	1634	1629	1629	1636	1627	155
180°	1638	1638	1638	1638	1638	

TEST NUMBER: P1032293

CATALOG NUMBER: S123RDIW-B560D1320UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.6	932.6	932.6	932.6	932.6
2.5°	936.4	933.4	924.3	932.6	931.1
5°	932.6	928.9	919.8	926.6	925.1
7.5°	925.8	922.1	910.7	915.2	913.0
10°	916.8	911.5	897.8	898.6	894.8
12.5°	903.9	897.8	880.4	879.7	875.2
15°	889.5	881.2	860.0	856.2	850.9
17.5°	872.1	863.1	836.6	829.0	821.4
20°	852.5	840.4	811.6	801.8	792.7
22.5°	830.5	816.2	785.1	772.3	764.0
25°	809.3	790.4	755.6	739.8	731.4
27.5°	783.6	763.2	725.4	704.2	691.3
30°	757.2	734.5	692.1	666.4	654.3
32.5°	730.7	704.2	658.8	630.1	617.2
35°	700.4	673.2	626.3	593.8	580.2
37.5°	670.2	640.7	591.5	555.2	538.6
40°	641.4	608.1	554.4	515.1	497.7
42.5°	608.9	575.6	519.6	475.8	460.6
45°	575.6	541.6	483.3	440.2	422.1
47.5°	543.1	505.3	447.8	400.9	385.0
50°	506.8	471.2	410.0	363.1	345.7
52.5°	474.3	434.9	374.4	325.3	310.1
55°	437.2	400.1	335.8	292.0	276.8
57.5°	403.9	363.8	298.8	257.2	244.3
60°	369.1	327.5	264.7	223.9	211.0
62.5°	334.3	292.7	229.9	192.1	178.5
65°	298.8	257.2	198.2	161.1	152.8
67.5°	263.2	220.9	163.4	135.4	126.3
70°	228.4	187.6	134.6	108.2	99.8
72.5°	193.6	153.5	106.7	86.2	84.0
75°	158.1	121.8	80.2	72.6	71.1
77.5°	125.6	92.3	62.8	58.2	56.7
80°	94.5	63.5	47.7	45.4	43.9
82.5°	65.1	39.3	34.0	31.8	31.8
85°	40.1	23.4	21.2	19.7	19.7
87.5°	18.2	9.8	9.8	9.1	8.3
90°	1.3	14.2	30.9	36.0	38.6
92.5°	38.6	46.3	54.0	57.9	55.3
95°	75.9	84.9	95.2	100.3	100.3
97.5°	124.8	131.2	138.9	145.4	144.1
100°	175.0	182.7	189.1	193.0	195.5
102.5°	232.8	236.7	245.7	249.6	248.3
105°	289.4	292.0	303.6	303.6	306.2
107.5°	356.3	357.6	362.8	366.6	365.3
110°	418.1	420.7	423.2	428.4	425.8

TEST NUMBER: P1032293

CATALOG NUMBER: S123RDIW-B560D1320UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	482.4	483.7	483.7	490.1	490.1
115°	546.7	550.6	548.0	549.3	548.0
117.5°	612.3	613.6	611.1	611.1	607.2
120°	672.8	680.5	674.1	672.8	670.2
122.5°	735.8	741.0	738.4	734.5	730.7
125°	800.2	804.0	801.4	796.3	791.2
127.5°	859.3	867.0	864.5	856.8	851.6
130°	918.5	928.8	924.9	919.8	910.8
132.5°	977.7	988.0	985.4	979.0	972.5
135°	1038.1	1045.9	1044.6	1039.4	1036.9
137.5°	1093.5	1099.9	1103.8	1097.3	1093.5
140°	1151.3	1157.8	1159.1	1157.8	1148.8
142.5°	1204.1	1210.5	1213.1	1211.8	1205.4
145°	1259.4	1262.0	1265.8	1264.6	1259.4
147.5°	1307.0	1312.2	1316.0	1316.0	1308.3
150°	1357.2	1359.7	1362.3	1362.3	1354.6
152.5°	1398.3	1402.2	1403.5	1406.1	1399.6
155°	1442.1	1442.1	1443.4	1448.5	1439.5
157.5°	1479.4	1478.1	1479.4	1484.5	1476.8
160°	1514.1	1511.5	1511.5	1518.0	1512.8
162.5°	1545.0	1541.1	1542.4	1548.9	1539.8
165°	1570.7	1566.9	1566.9	1574.6	1565.6
167.5°	1592.6	1587.4	1588.7	1596.5	1588.7
170°	1610.6	1605.5	1605.5	1614.5	1605.5
172.5°	1624.8	1619.6	1619.6	1627.3	1618.3
175°	1633.8	1628.6	1628.6	1636.3	1627.3
177.5°	1638.9	1633.8	1633.8	1641.5	1632.5
180°	1637.6	1637.6	1637.6	1637.6	1637.6

(END OF REPORT)