

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: P1012557

Luminaire Tested: S123RDIP-B560D1025UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012557
REPORT IS A COMBINATION OF REPORTS P993324 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1025UB27-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

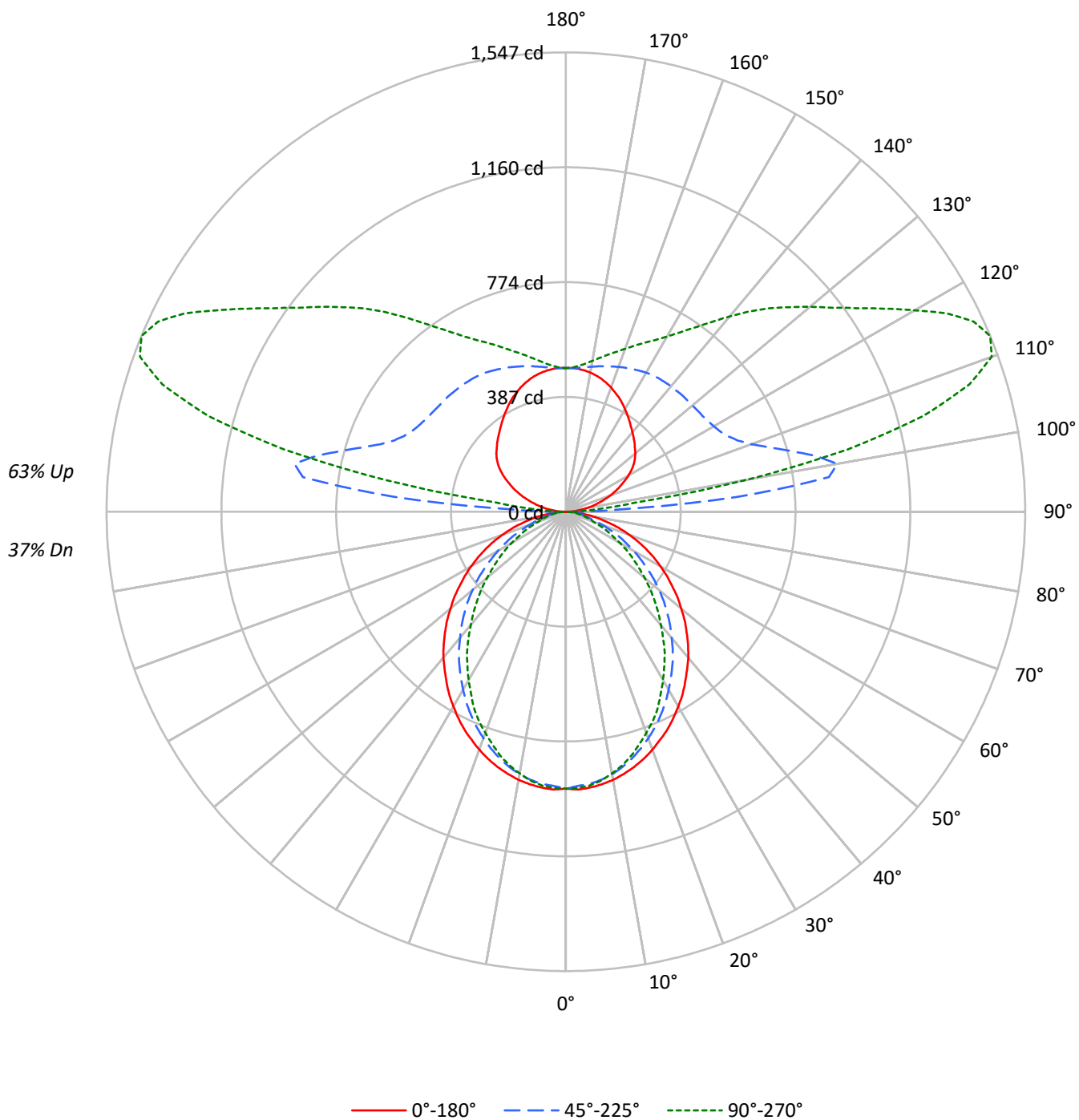
Lumens per Lamp: N/A
Luminaire Lumens: 5758.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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

TEST NUMBER: P1012557

CATALOG NUMBER: S123RDIP-B560D1025UB27-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1012557

CATALOG NUMBER: S123RDIP-B560D1025UB27-4F0-XX-W2A-F4

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	37
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27
4	73	62	55	49	65	57	50	45	46	42	38	37	33	31	28	26	24
5	67	55	48	42	60	51	44	39	41	36	33	33	29	27	25	23	21
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	16	14	12

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: P1012557

CATALOG NUMBER: S123RDIP-B560D1025UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.5
10°-20°	243.9	4.2
20°-30°	351.2	6.1
30°-40°	395.5	6.9
40°-50°	378.3	6.6
50°-60°	309.7	5.4
60°-70°	208.8	3.6
70°-80°	104.7	1.8
80°-90°	30.1	0.5
90°-100°	275.0	4.8
100°-110°	768.7	13.3
110°-120°	749.5	13.0
120°-130°	596.8	10.4
130°-140°	471.1	8.2
140°-150°	351.5	6.1
150°-160°	245.2	4.3
160°-170°	144.1	2.5
170°-180°	46.9	0.8
0°-30°	682.7	11.9
0°-40°	1078.2	18.7
0°-60°	1766.1	30.7
0°-90°	2109.7	36.6
90°-120°	1793.2	31.1
90°-150°	3212.6	55.8
90°-180°	3649.0	63.4
0°-180°	5758.5	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°	2	12	24	27	28	5
95°	33	108	581	169	114	35
105°	114	168	788	1377	1246	121
115°	201	250	602	1321	1516	199
125°	279	330	562	1019	1195	248
135°	327	390	554	839	969	253
145°	373	428	548	688	757	234
155°	424	458	530	602	628	195
165°	463	477	508	538	548	131
175°	483	483	487	494	493	46
180°	484	484	484	484	484	

TEST NUMBER: P1012557

CATALOG NUMBER: S123RDIP-B560D1025UB27-4F0-XX-W2A-F4

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°	2.0	11.8	24.5	27.4	28.4
92.5°	14.7	58.8	182.2	62.2	51.9
95°	33.3	108.2	580.9	169.4	113.6
97.5°	52.9	124.0	893.4	426.2	233.2
100°	72.5	136.7	927.7	891.4	614.2
102.5°	93.1	151.4	864.1	1193.7	972.8
105°	113.6	168.0	787.6	1377.4	1246.1
107.5°	135.2	187.6	720.0	1458.2	1424.4
110°	158.7	207.7	664.2	1460.7	1526.3

TEST NUMBER: P1012557

CATALOG NUMBER: S123RDIP-B560D1025UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.3	228.8	627.0	1405.3	1546.9
115°	200.8	250.3	602.5	1321.1	1515.5
117.5°	221.4	270.8	585.8	1230.9	1447.0
120°	243.0	291.4	575.1	1145.7	1356.8
122.5°	261.6	311.0	568.2	1078.6	1272.6
125°	279.2	329.6	562.3	1018.8	1195.2
127.5°	292.9	347.3	559.4	969.8	1128.6
130°	305.7	363.0	556.4	924.8	1073.7
132.5°	315.4	377.2	555.5	882.6	1019.8
135°	327.2	390.4	554.5	839.1	968.9
137.5°	338.0	401.2	552.5	797.9	915.0
140°	348.8	411.0	551.5	757.8	858.2
142.5°	360.5	419.8	549.6	721.0	805.3
145°	373.2	427.6	547.6	688.2	757.3
147.5°	386.0	436.0	544.7	662.8	716.1
150°	398.7	442.8	540.8	640.2	680.9
152.5°	411.5	450.2	535.9	620.6	651.5
155°	424.2	457.5	530.0	602.5	628.0
157.5°	434.0	463.9	525.1	584.9	605.4
160°	445.7	469.3	519.2	568.7	583.9
162.5°	454.6	473.2	513.3	553.5	564.3
165°	463.4	476.6	507.5	538.3	547.6
167.5°	470.2	479.6	501.6	525.1	531.0
170°	476.1	481.0	495.7	513.3	516.3
172.5°	480.0	482.5	490.8	503.0	502.6
175°	483.0	483.4	486.9	493.7	492.8
177.5°	484.9	483.9	483.9	487.9	485.9
180°	483.9	483.9	483.9	483.9	483.9

(END OF REPORT)