

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: P1012580

Luminaire Tested: S123RDIP-B560D1025UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012580
REPORT IS A COMBINATION OF REPORTS P993357 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1025UB50-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

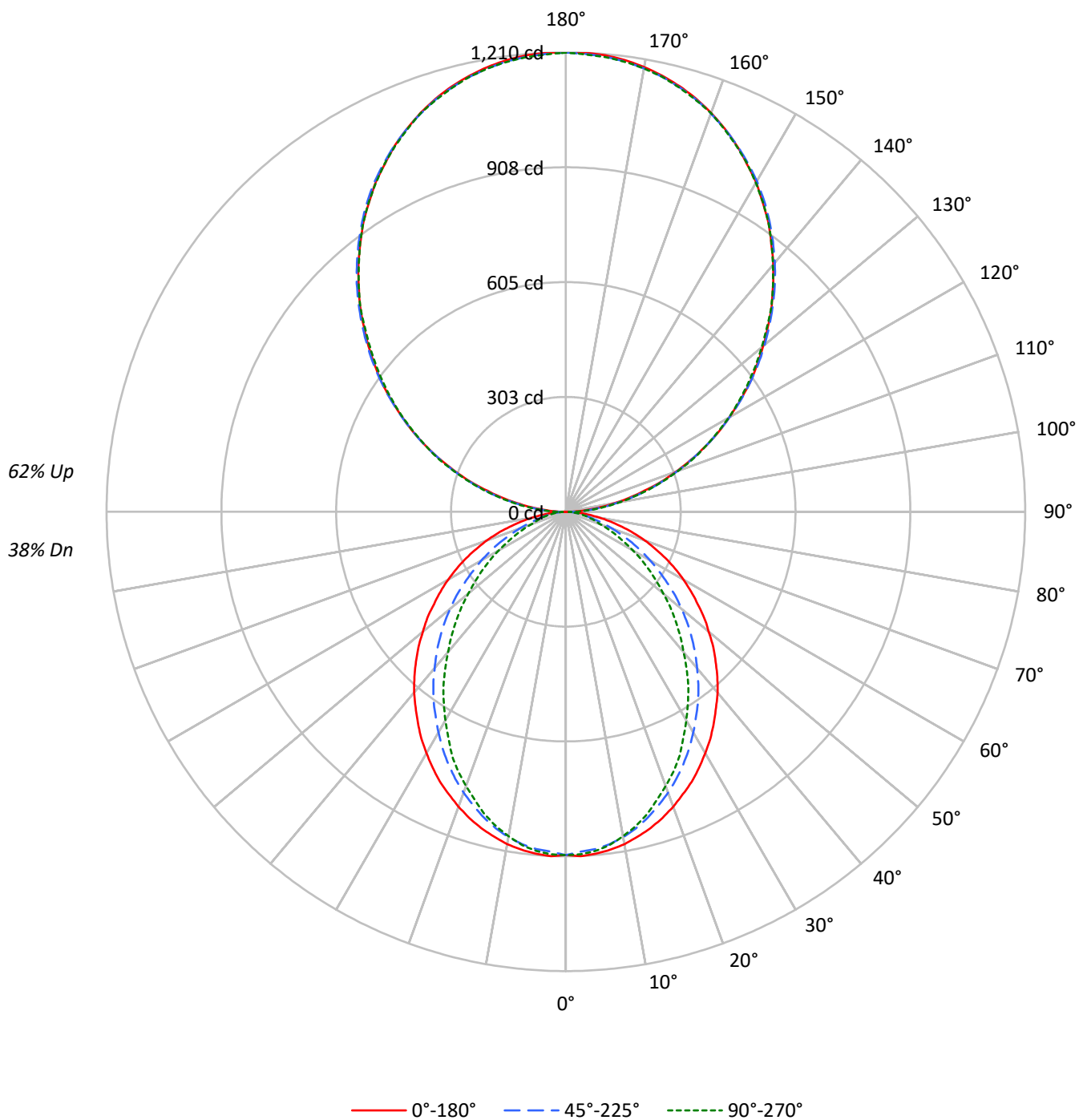
Lumens per Lamp: N/A
Luminaire Lumens: 5397.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1012580

CATALOG NUMBER: S123RDIP-B560D1025UB50-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1012580

CATALOG NUMBER: S123RDIP-B560D1025UB50-4F0-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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33
3	79	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24
5	67	56	48	42	60	51	44	39	42	37	33	34	30	27	26	23	21
6	62	50	42	36	56	46	39	34	38	33	29	30	27	24	23	21	19
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	21	19	17
8	53	41	33	28	48	38	31	26	31	26	23	25	22	19	20	17	15
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12

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: P1012580

CATALOG NUMBER: S123RDIP-B560D1025UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.6
10°-20°	236.5	4.4
20°-30°	340.5	6.3
30°-40°	383.4	7.1
40°-50°	366.8	6.8
50°-60°	300.2	5.6
60°-70°	202.4	3.8
70°-80°	101.5	1.9
80°-90°	29.1	0.5
90°-100°	77.9	1.4
100°-110°	235.7	4.4
110°-120°	401.2	7.4
120°-130°	527.8	9.8
130°-140°	593.3	11.0
140°-150°	583.2	10.8
150°-160°	491.0	9.1
160°-170°	326.9	6.1
170°-180°	114.5	2.1
0°-30°	662.0	12.3
0°-40°	1045.4	19.4
0°-60°	1712.5	31.7
0°-90°	2045.5	37.9
90°-120°	714.7	13.2
90°-150°	2419.0	44.8
90°-180°	3351.0	62.1
0°-180°	5397.0	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°	1	10	23	27	28	7
95°	56	63	70	74	74	62
105°	214	216	224	224	226	229
115°	404	407	405	406	405	400
125°	591	594	592	588	584	527
135°	767	772	772	768	766	591
145°	930	932	935	934	930	581
155°	1065	1065	1066	1070	1063	490
165°	1160	1157	1157	1163	1156	327
175°	1207	1203	1203	1209	1202	115
180°	1210	1210	1210	1210	1210	

TEST NUMBER: P1012580

CATALOG NUMBER: S123RDIP-B560D1025UB50-4F0-XX-W2A-F1

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°	1.0	10.5	22.8	26.6	28.5
92.5°	28.5	34.2	39.9	42.8	40.9
95°	56.1	62.7	70.3	74.1	74.1
97.5°	92.2	96.9	102.6	107.4	106.4
100°	129.2	134.9	139.7	142.5	144.4
102.5°	172.0	174.8	181.5	184.3	183.4
105°	213.8	215.7	224.2	224.2	226.1
107.5°	263.2	264.1	267.9	270.8	269.8
110°	308.8	310.7	312.6	316.4	314.5

TEST NUMBER: P1012580

CATALOG NUMBER: S123RDIP-B560D1025UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	356.3	357.3	357.3	362.0	362.0
115°	403.8	406.7	404.8	405.7	404.8
117.5°	452.3	453.2	451.3	451.3	448.5
120°	496.9	502.6	497.9	496.9	495.0
122.5°	543.5	547.3	545.4	542.5	539.7
125°	591.0	593.8	591.9	588.1	584.3
127.5°	634.7	640.4	638.5	632.8	629.0
130°	678.4	686.0	683.2	679.4	672.7
132.5°	722.1	729.7	727.8	723.1	718.3
135°	766.8	772.5	771.5	767.7	765.8
137.5°	807.6	812.4	815.2	810.5	807.6
140°	850.4	855.1	856.1	855.1	848.5
142.5°	889.3	894.1	896.0	895.0	890.3
145°	930.2	932.1	935.0	934.0	930.2
147.5°	965.4	969.2	972.0	972.0	966.3
150°	1002.4	1004.3	1006.2	1006.2	1000.5
152.5°	1032.8	1035.7	1036.6	1038.5	1033.8
155°	1065.1	1065.1	1066.1	1069.9	1063.2
157.5°	1092.7	1091.7	1092.7	1096.5	1090.8
160°	1118.3	1116.4	1116.4	1121.2	1117.4
162.5°	1141.1	1138.3	1139.2	1144.0	1137.3
165°	1160.1	1157.3	1157.3	1163.0	1156.3
167.5°	1176.3	1172.5	1173.4	1179.1	1173.4
170°	1189.6	1185.8	1185.8	1192.4	1185.8
172.5°	1200.0	1196.2	1196.2	1201.9	1195.3
175°	1206.7	1202.9	1202.9	1208.6	1201.9
177.5°	1210.5	1206.7	1206.7	1212.4	1205.7
180°	1209.5	1209.5	1209.5	1209.5	1209.5

(END OF REPORT)