

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: P1013308

Luminaire Tested: S124RDIP-B350D1035UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013308
REPORT IS A COMBINATION OF REPORTS P999233 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D1035UB2750-4F0-XX-W2A-F_4000K
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

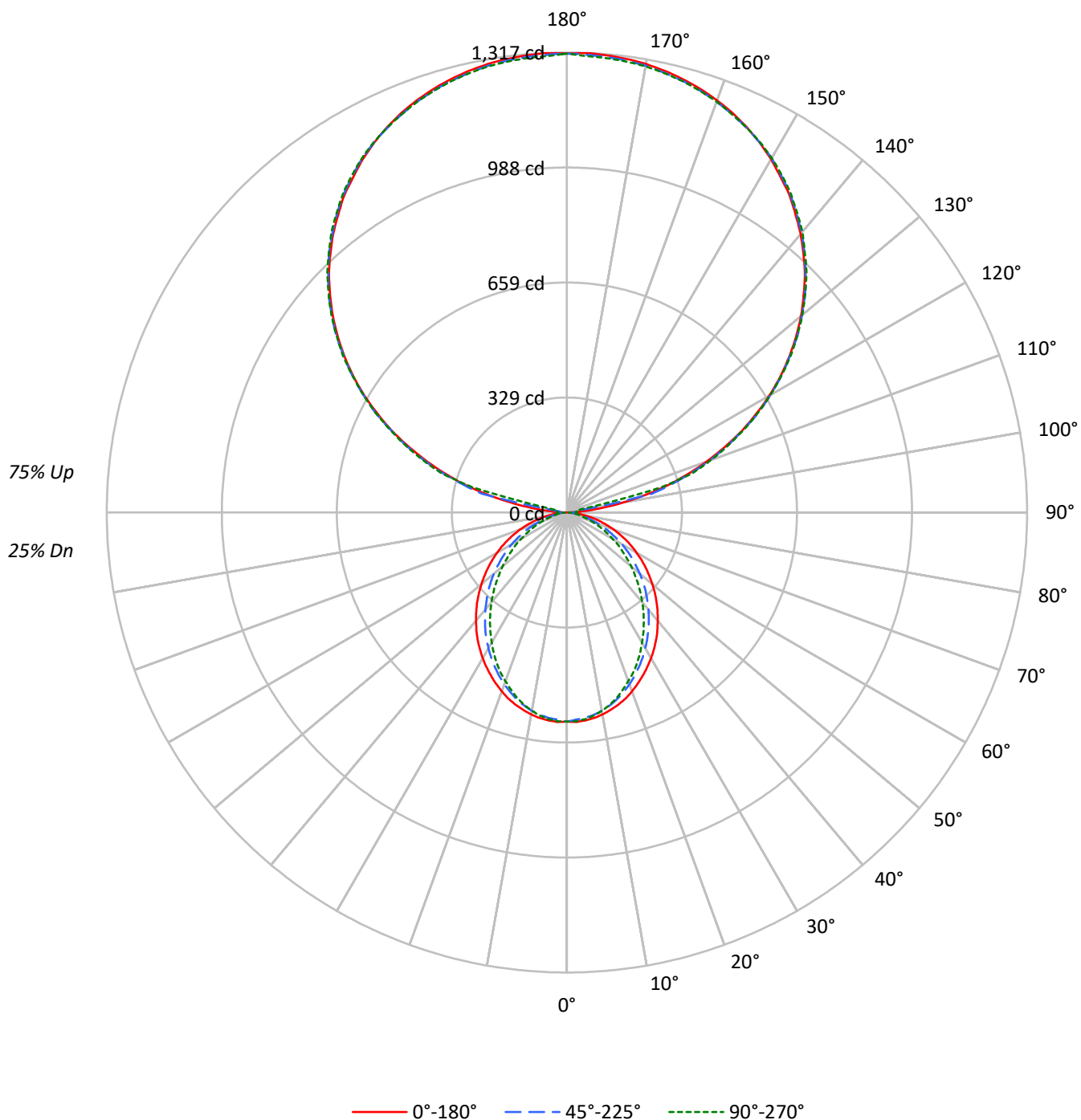
Lumens per Lamp: N/A
Luminaire Lumens: 5451.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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: P1013308

CATALOG NUMBER: S124RDIP-B350D1035UB2750-4F0-XX-W2A-F_4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4880	4880	4880
5°	4881	4736	4737
10°	4840	4586	4531
15°	4773	4400	4291
20°	4686	4188	4016
25°	4578	3959	3747
30°	4471	3726	3445
35°	4354	3489	3150
40°	4214	3235	2847
45°	4084	2981	2547
50°	3935	2705	2242
55°	3775	2423	1928
60°	3597	2122	1617
65°	3425	1777	1318
70°	3179	1415	1008
75°	2867	1030	705
80°	2394	633	506
85°	1797	364	279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4084 cd/sqm

TEST NUMBER: P1013308

CATALOG NUMBER: S124RDIP-B350D1035UB2750-4F0-XX-W2A-F_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.0
10°-20°	156.9	2.9
20°-30°	226.6	4.2
30°-40°	256.8	4.7
40°-50°	247.9	4.5
50°-60°	206.1	3.8
60°-70°	142.3	2.6
70°-80°	71.9	1.3
80°-90°	21.0	0.4
90°-100°	43.6	0.8
100°-110°	287.2	5.3
110°-120°	548.4	10.1
120°-130°	696.2	12.8
130°-140°	744.8	13.7
140°-150°	696.4	12.8
150°-160°	561.6	10.3
160°-170°	362.2	6.6
170°-180°	124.8	2.3
0°-30°	439.8	8.1
0°-40°	696.6	12.8
0°-60°	1150.6	21.1
0°-90°	1385.7	25.4
90°-120°	879.2	16.1
90°-150°	3016.6	55.3
90°-180°	4065.0	74.6
0°-180°	5451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	598	596	590	595	594	57
15°	569	565	554	553	550	160
25°	515	506	488	480	475	237
35°	445	430	407	392	384	278
45°	363	346	318	296	288	280
55°	275	257	227	203	194	246
65°	187	167	138	118	113	185
75°	100	82	61	50	48	105
85°	25	16	14	13	13	27
90°	3	14	22	28	30	4
95°	54	21	22	28	28	67
105°	296	302	307	315	280	310
115°	552	555	554	556	556	544
125°	776	780	778	781	782	693
135°	963	962	966	968	970	742
145°	1110	1113	1113	1114	1116	694
155°	1218	1218	1216	1219	1216	561
165°	1284	1279	1279	1287	1278	363
175°	1314	1308	1309	1318	1306	125
180°	1314	1314	1314	1314	1314	

TEST NUMBER: P1013308

CATALOG NUMBER: S124RDIP-B350D1035UB2750-4F0-XX-W2A-F_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	598.5	598.5	598.5	598.5	598.5
2.5°	600.4	598.5	593.5	598.5	598.1
5°	597.6	595.8	590.3	594.9	594.0
7.5°	593.5	591.7	584.8	588.0	586.6
10°	587.1	584.8	576.5	578.4	576.5
12.5°	578.8	576.1	566.0	566.9	564.2
15°	569.2	565.1	553.6	552.7	549.5
17.5°	558.2	552.3	539.0	536.7	532.1
20°	544.9	539.0	523.4	519.7	513.8
22.5°	530.3	523.4	506.4	500.5	495.9
25°	514.7	506.4	487.6	479.8	475.3
27.5°	498.6	488.6	468.8	459.7	453.3
30°	481.7	470.2	448.7	437.2	429.9
32.5°	463.8	450.5	428.1	414.3	407.4
35°	445.0	430.3	407.4	391.8	383.6
37.5°	425.3	410.2	385.0	368.0	359.8
40°	404.2	389.1	363.0	343.7	335.5
42.5°	384.1	368.0	340.5	320.8	312.1
45°	363.0	346.0	318.5	296.1	287.8
47.5°	341.4	324.0	295.6	272.2	263.1
50°	319.4	301.6	272.2	249.3	240.6
52.5°	297.0	279.6	249.3	225.9	216.8
55°	275.0	256.6	226.9	203.0	194.3
57.5°	253.4	234.2	204.9	180.6	174.2
60°	230.1	211.7	182.4	158.6	151.2
62.5°	209.0	189.7	159.5	137.9	132.4
65°	187.0	167.3	137.9	118.2	112.7
67.5°	164.1	145.3	117.8	100.4	94.0
70°	142.5	123.3	97.2	82.0	77.5
72.5°	119.6	102.7	78.4	66.0	61.9
75°	99.5	82.5	61.0	50.4	47.7
77.5°	78.4	63.7	45.4	38.0	37.1
80°	58.2	44.9	31.2	29.8	29.3
82.5°	40.8	28.9	22.5	21.5	21.1
85°	24.7	15.6	14.2	13.3	13.3
87.5°	10.5	6.9	6.4	6.0	6.4
90°	2.9	13.8	21.6	27.5	29.5
92.5°	14.7	12.8	20.6	26.5	26.5
95°	54.0	20.6	21.6	27.5	28.5
97.5°	103.2	124.8	21.6	26.5	27.5
100°	161.2	178.8	43.2	26.5	27.5
102.5°	226.0	237.8	249.6	28.5	28.5
105°	295.8	301.7	306.6	315.4	280.0
107.5°	359.6	362.6	369.5	374.4	378.3
110°	424.5	427.4	433.3	435.3	438.3

TEST NUMBER: P1013308

CATALOG NUMBER: S124RDIP-B350D1035UB2750-4F0-XX-W2A-F_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	487.4	493.3	495.2	494.3	498.2
115°	552.2	555.2	554.2	556.2	556.2
117.5°	610.2	614.1	617.1	616.1	616.1
120°	669.2	673.1	672.1	674.1	672.1
122.5°	724.2	726.2	728.1	729.1	727.1
125°	776.3	780.2	778.2	781.2	782.2
127.5°	826.4	827.4	832.3	831.3	830.3
130°	874.5	875.5	878.5	879.5	879.5
132.5°	918.8	920.7	924.7	925.6	924.7
135°	963.0	962.0	965.9	967.9	969.9
137.5°	1002.3	1002.3	1007.2	1009.2	1008.2
140°	1040.6	1042.6	1044.5	1047.5	1048.5
142.5°	1075.0	1078.9	1079.9	1081.9	1081.9
145°	1110.4	1113.3	1113.3	1114.3	1116.3
147.5°	1137.9	1143.8	1142.8	1143.8	1144.8
150°	1168.3	1172.3	1171.3	1171.3	1172.3
152.5°	1193.9	1196.8	1194.9	1196.8	1195.9
155°	1217.5	1218.5	1215.5	1219.4	1216.5
157.5°	1238.1	1238.1	1234.2	1239.1	1234.2
160°	1255.8	1252.9	1251.9	1257.8	1251.9
162.5°	1271.5	1267.6	1266.6	1272.5	1265.6
165°	1284.3	1279.4	1279.4	1287.2	1278.4
167.5°	1295.1	1290.2	1289.2	1298.1	1288.2
170°	1303.9	1298.1	1299.0	1306.9	1297.1
172.5°	1309.8	1303.9	1304.9	1312.8	1302.0
175°	1313.8	1307.9	1308.9	1317.7	1305.9
177.5°	1316.7	1309.8	1311.8	1319.7	1307.9
180°	1313.8	1313.8	1313.8	1313.8	1313.8

(END OF REPORT)