

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: P1026234

Luminaire Tested: S124RDIP-B350D1035UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026234
REPORT IS A COMBINATION OF REPORTS P999224 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D1035UB27-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

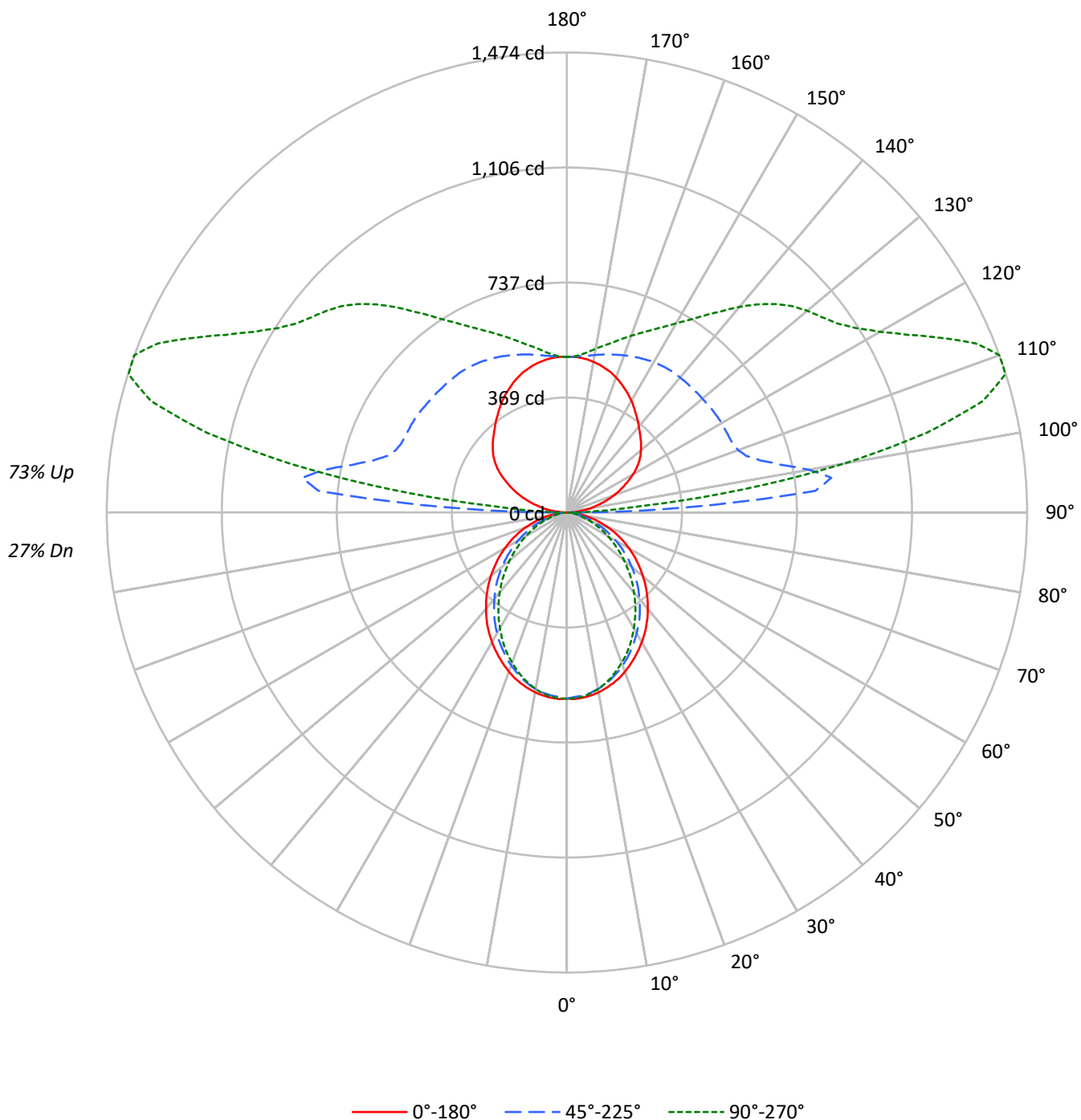
Lumens per Lamp: N/A
Luminaire Lumens: 5019.3 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1026234

CATALOG NUMBER: S124RDIP-B350D1035UB27-4F0-XX-W2A-F4

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35
1	93	89	85	82	83	80	76	74	62	60	58	46	45	44	32	31	30
2	85	78	72	67	75	70	65	61	55	51	48	41	39	37	28	27	26
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17
6	60	48	40	35	53	43	37	32	34	30	26	26	23	20	18	16	15
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13
8	51	39	32	27	45	35	29	25	28	24	20	22	18	16	15	13	12
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11
10	44	33	26	21	39	30	23	19	24	19	16	18	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4863	4863	4863
5°	4864	4719	4719
10°	4823	4570	4516
15°	4757	4384	4275
20°	4670	4173	4001
25°	4561	3945	3733
30°	4454	3713	3432
35°	4338	3477	3139
40°	4200	3223	2837
45°	4069	2971	2538
50°	3921	2695	2234
55°	3761	2414	1921
60°	3583	2114	1612
65°	3412	1772	1313
70°	3168	1410	1004
75°	2856	1025	702
80°	2385	631	504
85°	1797	364	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4069 cd/sqm

TEST NUMBER: P1026234

CATALOG NUMBER: S124RDIP-B350D1035UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	156.4	3.1
20°-30°	225.7	4.5
30°-40°	255.9	5.1
40°-50°	247.0	4.9
50°-60°	205.4	4.1
60°-70°	141.8	2.8
70°-80°	71.6	1.4
80°-90°	20.1	0.4
90°-100°	370.4	7.4
100°-110°	753.4	15.0
110°-120°	671.5	13.4
120°-130°	564.1	11.2
130°-140°	470.7	9.4
140°-150°	359.5	7.2
150°-160°	252.7	5.0
160°-170°	148.6	3.0
170°-180°	48.3	1.0
0°-30°	438.2	8.7
0°-40°	694.0	13.8
0°-60°	1146.4	22.8
0°-90°	1379.9	27.5
90°-120°	1795.4	35.8
90°-150°	3189.7	63.5
90°-180°	3639.0	72.5
0°-180°	5019.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	596	594	588	593	592	57
15°	567	563	552	551	548	160
25°	513	505	486	478	474	236
35°	443	429	406	390	382	277
45°	362	345	317	295	287	279
55°	274	256	226	202	194	245
65°	186	167	138	118	112	184
75°	99	82	61	50	48	105
85°	25	16	14	13	13	27
90°	1	8	18	20	21	4
95°	32	102	798	395	239	35
105°	115	166	643	1384	1378	122
115°	202	253	573	1101	1324	200
125°	281	334	570	937	1056	251
135°	334	398	565	832	944	258
145°	385	441	562	702	771	242
155°	438	473	547	619	646	202
165°	477	492	524	555	563	135
175°	498	499	503	510	508	47
180°	499	499	499	499	499	

TEST NUMBER: P1026234

CATALOG NUMBER: S124RDIP-B350D1035UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	596.4	596.4	596.4	596.4	596.4
2.5°	598.2	596.4	591.4	596.4	595.9
5°	595.5	593.6	588.2	592.7	591.8
7.5°	591.4	589.5	582.7	585.9	584.5
10°	585.0	582.7	574.5	576.3	574.5
12.5°	576.7	574.0	564.0	564.9	562.1
15°	567.2	563.0	551.6	550.7	547.5
17.5°	556.2	550.3	537.0	534.7	530.2
20°	543.0	537.0	521.5	517.8	511.9
22.5°	528.3	521.5	504.6	498.7	494.1
25°	512.8	504.6	485.9	478.1	473.5
27.5°	496.8	486.8	467.1	458.0	451.6
30°	479.9	468.5	447.1	435.6	428.3
32.5°	462.1	448.9	426.5	412.8	406.0
35°	443.4	428.8	406.0	390.4	382.2
37.5°	423.8	408.7	383.6	366.7	358.5
40°	402.8	387.7	361.7	342.5	334.3
42.5°	382.7	366.7	339.3	319.7	311.0
45°	361.7	344.8	317.4	295.0	286.8
47.5°	340.2	322.8	294.5	271.2	262.1
50°	318.3	300.5	271.2	248.4	239.7
52.5°	295.9	278.6	248.4	225.1	216.0
55°	274.0	255.7	226.0	202.3	193.6
57.5°	252.5	233.3	204.1	179.9	173.5
60°	229.2	211.0	181.7	158.0	150.7
62.5°	208.2	189.1	158.9	137.5	132.0
65°	186.3	166.7	137.5	117.8	112.3
67.5°	163.5	144.8	117.4	100.0	93.6
70°	142.0	122.8	96.8	81.7	77.2
72.5°	119.2	102.3	78.1	65.8	61.6
75°	99.1	82.2	60.7	50.2	47.5
77.5°	78.1	63.5	45.2	37.9	37.0
80°	58.0	44.8	31.1	29.7	29.2
82.5°	40.6	28.8	22.4	21.5	21.0
85°	24.7	15.5	14.2	13.2	13.2
87.5°	10.5	6.8	6.4	5.9	6.4
90°	1.0	7.8	17.6	19.6	20.6
92.5°	13.7	75.4	384.1	126.8	89.2
95°	32.3	101.9	798.5	395.3	239.1
97.5°	53.9	112.6	854.3	807.3	574.1
100°	74.5	127.4	787.7	1116.8	898.4
102.5°	94.1	145.0	704.4	1310.9	1180.6
105°	114.6	166.1	642.7	1383.9	1378.5
107.5°	137.2	187.6	602.5	1361.8	1472.5
110°	159.7	209.2	583.9	1283.4	1474.5

TEST NUMBER: P1026234

CATALOG NUMBER: S124RDIP-B350D1035UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.3	230.8	575.1	1187.4	1416.7
115°	201.8	253.2	573.1	1101.2	1323.6
117.5°	223.4	274.3	572.2	1033.6	1232.5
120°	244.9	294.9	572.2	988.0	1158.0
122.5°	264.5	315.0	571.2	958.2	1099.3
125°	281.2	334.1	570.2	937.2	1056.2
127.5°	296.9	351.7	568.2	917.0	1028.7
130°	309.6	368.9	567.3	893.0	1005.2
132.5°	322.3	383.6	566.3	864.6	978.8
135°	334.1	397.8	565.3	831.8	944.5
137.5°	345.8	410.0	565.3	796.6	904.3
140°	358.6	421.2	564.3	762.2	860.2
142.5°	372.3	431.6	564.3	730.4	813.2
145°	385.0	440.9	562.4	701.5	771.0
147.5°	399.7	449.7	559.4	677.5	731.9
150°	413.4	458.0	556.5	655.4	699.5
152.5°	426.2	465.8	551.6	636.8	670.1
155°	437.9	472.8	546.7	619.2	645.6
157.5°	449.7	479.1	541.8	602.5	623.1
160°	460.5	484.5	535.9	585.9	602.5
162.5°	470.3	488.9	530.0	569.7	582.9
165°	477.1	491.8	524.2	555.0	563.3
167.5°	485.0	494.2	518.3	542.3	547.7
170°	489.9	496.2	512.4	529.6	533.0
172.5°	494.8	497.7	506.5	518.3	518.3
175°	497.7	498.7	502.6	509.5	507.5
177.5°	499.7	498.7	499.7	503.1	499.7
180°	498.7	498.7	498.7	498.7	498.7

(END OF REPORT)