

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: P1026275

Luminaire Tested: S124RDIP-B350D1205UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026275
REPORT IS A COMBINATION OF REPORTS P999285 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D1205UB35-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

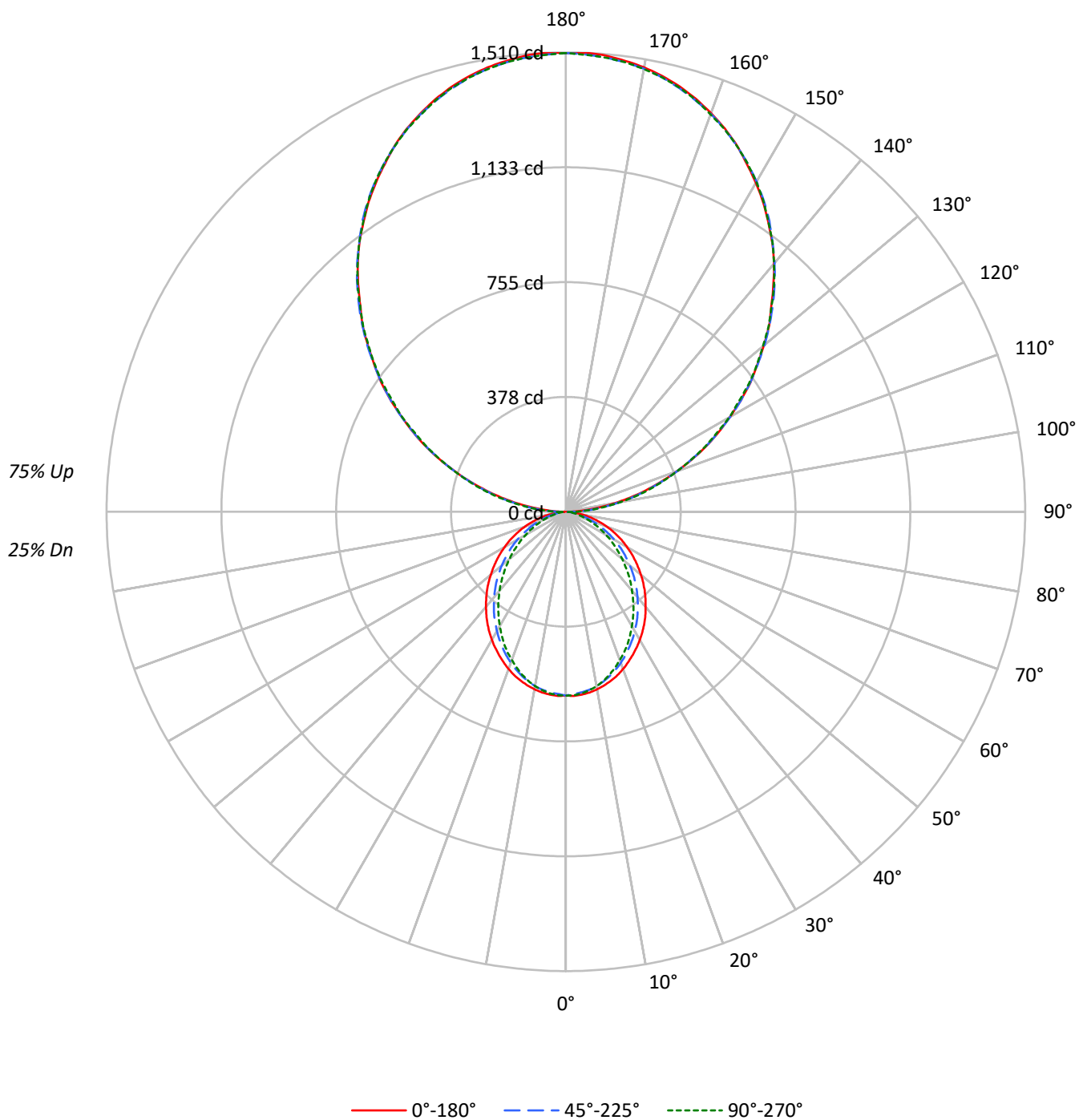
Lumens per Lamp: N/A
Luminaire Lumens: 5583.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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: P1026275

CATALOG NUMBER: S124RDIP-B350D1205UB35-4F0-XX-W2A-F1

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	69	69	69	51	51	51	33	33	33
1	92	88	85	81	82	79	76	73	61	59	57	45	43	42	30	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21
4	70	60	52	47	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12
8	51	39	31	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	17	19	16	14	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4927	4927	4927
5°	4927	4780	4781
10°	4885	4630	4575
15°	4819	4441	4331
20°	4730	4228	4053
25°	4620	3996	3782
30°	4513	3761	3477
35°	4395	3522	3180
40°	4254	3265	2874
45°	4122	3010	2571
50°	3972	2731	2264
55°	3811	2446	1946
60°	3630	2142	1633
65°	3456	1794	1331
70°	3210	1429	1017
75°	2893	1039	711
80°	2418	639	511
85°	1819	366	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4122 cd/sqm

TEST NUMBER: P1026275

CATALOG NUMBER: S124RDIP-B350D1205UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.0
10°-20°	158.4	2.8
20°-30°	228.7	4.1
30°-40°	259.2	4.6
40°-50°	250.3	4.5
50°-60°	208.1	3.7
60°-70°	143.6	2.6
70°-80°	72.6	1.3
80°-90°	21.6	0.4
90°-100°	98.3	1.8
100°-110°	294.4	5.3
110°-120°	500.1	9.0
120°-130°	659.6	11.8
130°-140°	740.8	13.3
140°-150°	728.1	13.0
150°-160°	612.4	11.0
160°-170°	407.5	7.3
170°-180°	142.7	2.6
0°-30°	443.9	8.0
0°-40°	703.1	12.6
0°-60°	1161.4	20.8
0°-90°	1399.2	25.1
90°-120°	892.8	16.0
90°-150°	3021.3	54.1
90°-180°	4184.0	74.9
0°-180°	5583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	603	601	596	600	600	57
15°	575	570	559	558	555	162
25°	520	511	492	484	480	239
35°	449	434	411	396	387	281
45°	366	349	322	299	290	283
55°	278	259	229	205	196	248
65°	189	169	139	119	114	186
75°	100	83	62	51	48	106
85°	25	16	14	13	13	27
90°	4	16	26	33	35	7
95°	70	80	89	92	92	76
105°	272	273	278	281	284	288
115°	508	508	506	505	504	501
125°	740	740	739	737	735	660
135°	955	962	962	960	956	739
145°	1160	1165	1166	1165	1162	726
155°	1329	1329	1328	1333	1328	612
165°	1447	1444	1441	1448	1444	408
175°	1506	1500	1498	1507	1498	143
180°	1508	1508	1508	1508	1508	

TEST NUMBER: P1026275

CATALOG NUMBER: S124RDIP-B350D1205UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.2	604.2	604.2	604.2	604.2
2.5°	606.0	604.2	599.1	604.2	603.7
5°	603.2	601.4	595.8	600.5	599.5
7.5°	599.1	597.2	590.3	593.5	592.1
10°	592.6	590.3	582.0	583.8	582.0
12.5°	584.3	581.5	571.3	572.3	569.5
15°	574.6	570.4	558.8	557.9	554.7
17.5°	563.5	557.4	544.0	541.7	537.1
20°	550.0	544.0	528.3	524.6	518.6
22.5°	535.2	528.3	511.2	505.2	500.5
25°	519.5	511.2	492.2	484.4	479.7
27.5°	503.3	493.1	473.3	464.0	457.5
30°	486.2	474.6	452.9	441.3	433.9
32.5°	468.2	454.7	432.1	418.2	411.3
35°	449.2	434.4	411.3	395.5	387.2
37.5°	429.3	414.0	388.6	371.5	363.1
40°	408.0	392.8	366.4	347.0	338.6
42.5°	387.7	371.5	343.7	323.8	315.0
45°	366.4	349.3	321.5	298.8	290.5
47.5°	344.6	327.1	298.4	274.8	265.5
50°	322.4	304.4	274.8	251.7	242.9
52.5°	299.8	282.2	251.7	228.1	218.8
55°	277.6	259.1	229.0	204.9	196.1
57.5°	255.8	236.4	206.8	182.3	175.8
60°	232.2	213.7	184.1	160.1	152.7
62.5°	211.0	191.5	161.0	139.2	133.7
65°	188.7	168.9	139.2	119.4	113.8
67.5°	165.6	146.6	118.9	101.3	94.8
70°	143.9	124.4	98.1	82.8	78.2
72.5°	120.7	103.6	79.1	66.6	62.5
75°	100.4	83.3	61.5	50.9	48.1
77.5°	79.1	64.3	45.8	38.4	37.5
80°	58.8	45.3	31.5	30.1	29.6
82.5°	41.2	29.1	22.7	21.7	21.3
85°	25.0	15.7	14.3	13.4	13.4
87.5°	10.6	6.9	6.5	6.0	6.5
90°	3.5	16.3	25.7	32.7	35.0
92.5°	30.3	45.5	51.3	54.8	56.0
95°	70.0	80.5	88.6	92.1	92.1
97.5°	112.0	121.3	130.6	135.3	135.3
100°	163.3	167.9	178.4	180.8	180.8
102.5°	216.9	218.1	227.4	230.9	232.1
105°	271.7	272.9	277.6	281.0	284.5
107.5°	328.9	330.0	331.2	335.9	334.7
110°	387.2	389.5	388.3	386.0	389.5

TEST NUMBER: P1026275

CATALOG NUMBER: S124RDIP-B350D1205UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	447.8	447.8	445.5	445.5	445.5
115°	508.5	508.5	506.1	505.0	503.8
117.5°	565.6	565.6	564.4	560.9	557.4
120°	622.7	627.4	623.9	618.1	620.4
122.5°	682.2	683.4	682.2	678.7	672.9
125°	740.5	740.5	739.4	737.0	734.7
127.5°	793.0	796.5	794.2	791.8	790.7
130°	849.0	852.5	852.5	850.1	845.5
132.5°	906.1	908.5	907.3	905.0	903.8
135°	955.1	962.1	962.1	959.8	956.3
137.5°	1009.9	1013.4	1015.7	1012.2	1013.4
140°	1064.7	1067.1	1067.1	1065.9	1064.7
142.5°	1114.9	1117.2	1116.0	1116.0	1116.0
145°	1160.3	1165.0	1166.2	1165.0	1161.5
147.5°	1207.0	1212.8	1211.7	1210.5	1209.3
150°	1249.0	1253.6	1253.6	1253.6	1252.5
152.5°	1288.6	1291.0	1292.1	1295.6	1292.1
155°	1329.4	1329.4	1328.3	1332.9	1328.3
157.5°	1364.4	1362.1	1362.1	1365.6	1362.1
160°	1394.7	1393.6	1392.4	1395.9	1390.1
162.5°	1422.7	1419.2	1418.1	1425.1	1419.2
165°	1447.2	1443.7	1441.4	1448.4	1443.7
167.5°	1467.1	1462.4	1462.4	1469.4	1462.4
170°	1483.4	1477.5	1478.7	1485.7	1477.5
172.5°	1495.0	1490.4	1490.4	1498.5	1490.4
175°	1505.5	1499.7	1498.5	1506.7	1498.5
177.5°	1510.2	1504.4	1504.4	1512.5	1503.2
180°	1507.9	1507.9	1507.9	1507.9	1507.9

(END OF REPORT)