

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: P1026400

Luminaire Tested: S124RDIP-B575D1035UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026400
REPORT IS A COMBINATION OF REPORTS P999450 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1035UB40-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

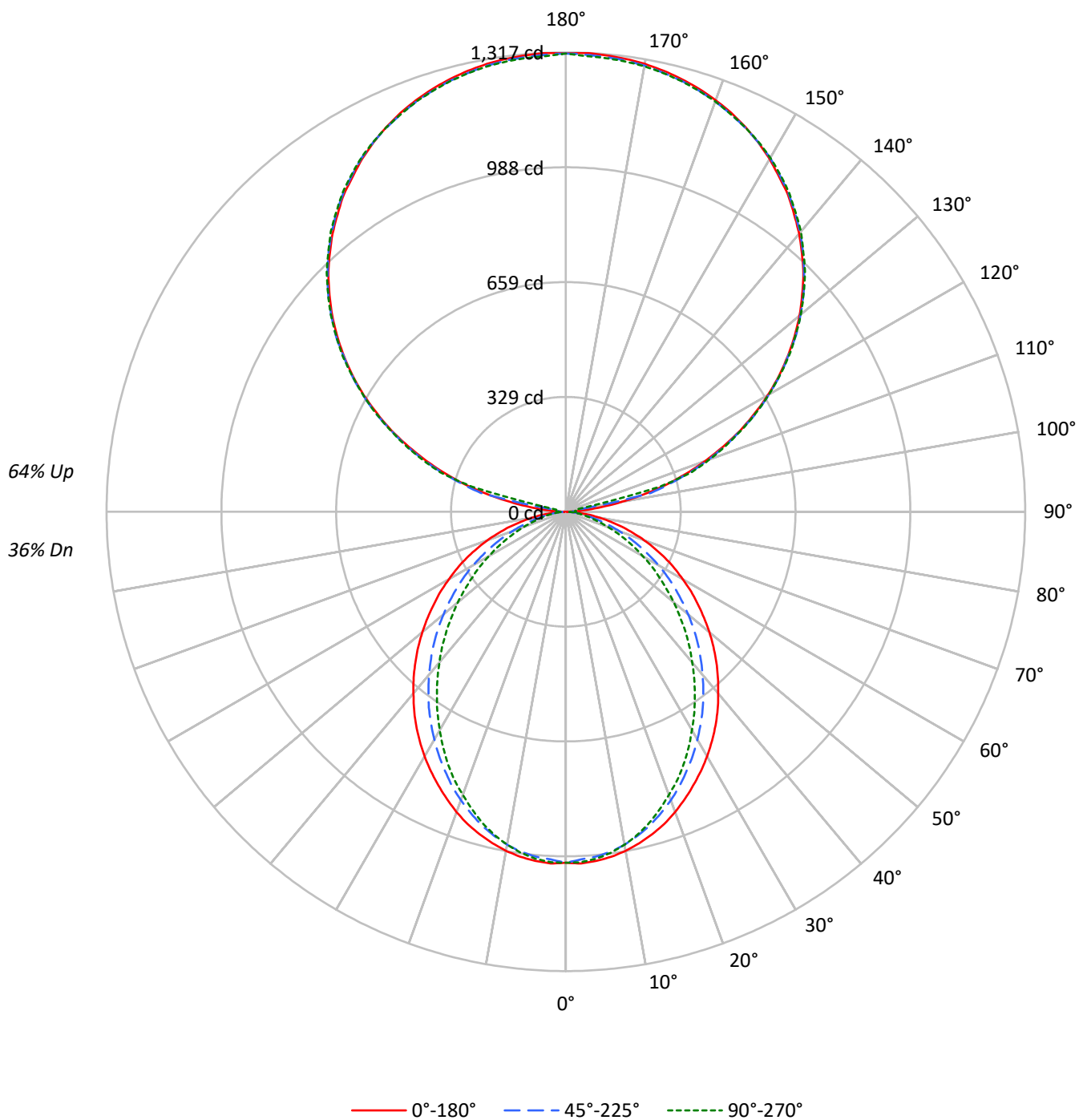
Lumens per Lamp: N/A
Luminaire Lumens: 6393.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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: P1026400

CATALOG NUMBER: S124RDIP-B575D1035UB40-4F0-XX-W2A-F

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	91	87	84	86	82	79	76	67	64	63	52	51	49	39	38	37
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32
3	79	70	63	57	71	64	58	53	52	47	44	41	38	35	31	29	27
4	72	62	54	49	65	56	50	45	46	41	37	36	33	30	27	25	23
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	45	37	32	51	41	34	29	34	29	25	27	23	20	21	18	16
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	15
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8205	8205	8205
5°	8206	7962	7962
10°	8137	7710	7618
15°	8025	7397	7213
20°	7878	7041	6750
25°	7695	6656	6299
30°	7517	6264	5792
35°	7319	5865	5296
40°	7086	5437	4787
45°	6865	5013	4283
50°	6615	4549	3770
55°	6346	4073	3242
60°	6046	3567	2720
65°	5758	2988	2216
70°	5345	2378	1694
75°	4818	1731	1184
80°	4022	1063	852
85°	3027	612	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6865 cd/sqm

TEST NUMBER: P1026400

CATALOG NUMBER: S124RDIP-B575D1035UB40-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.5
10°-20°	263.8	4.1
20°-30°	380.9	6.0
30°-40°	431.7	6.8
40°-50°	416.8	6.5
50°-60°	346.5	5.4
60°-70°	239.2	3.7
70°-80°	120.8	1.9
80°-90°	33.4	0.5
90°-100°	43.6	0.7
100°-110°	287.2	4.5
110°-120°	548.4	8.6
120°-130°	696.2	10.9
130°-140°	744.8	11.7
140°-150°	696.4	10.9
150°-160°	561.6	8.8
160°-170°	362.2	5.7
170°-180°	124.8	2.0
0°-30°	739.3	11.6
0°-40°	1171.0	18.3
0°-60°	1934.3	30.3
0°-90°	2327.7	36.4
90°-120°	879.2	13.8
90°-150°	3016.6	47.2
90°-180°	4065.0	63.6
0°-180°	6393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1002	992	1000	998	95
15°	957	950	931	929	924	270
25°	865	851	820	807	799	399
35°	748	724	685	659	645	468
45°	610	582	536	498	484	471
55°	462	432	381	341	327	414
65°	314	281	232	199	190	310
75°	167	139	102	85	80	176
85°	42	26	24	22	22	46
90°	3	14	22	28	30	5
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	

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CATALOG NUMBER: S124RDIP-B575D1035UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	1009.3	1006.2	997.8	1006.2	1005.5
5°	1004.7	1001.6	992.4	1000.1	998.5
7.5°	997.8	994.7	983.1	988.5	986.2
10°	987.0	983.1	969.2	972.3	969.2
12.5°	973.1	968.5	951.5	953.1	948.4
15°	956.9	950.0	930.7	929.2	923.8
17.5°	938.4	928.4	906.1	902.2	894.5
20°	916.1	906.1	879.9	873.7	863.7
22.5°	891.4	879.9	851.4	841.3	833.6
25°	865.2	851.4	819.8	806.7	799.0
27.5°	838.3	821.3	788.2	772.8	762.0
30°	809.8	790.5	754.3	735.0	722.7
32.5°	779.7	757.4	719.6	696.5	684.9
35°	748.1	723.5	684.9	658.7	644.9
37.5°	715.0	689.6	647.2	618.7	604.8
40°	679.6	654.1	610.2	577.8	564.0
42.5°	645.7	618.7	572.5	539.3	524.7
45°	610.2	581.7	535.5	497.7	483.9
47.5°	574.0	544.7	497.0	457.7	442.2
50°	537.0	507.0	457.7	419.1	404.5
52.5°	499.3	470.0	419.1	379.8	364.4
55°	462.3	431.5	381.4	341.3	326.7
57.5°	426.1	393.7	344.4	303.6	292.8
60°	386.8	356.0	306.6	266.6	254.3
62.5°	351.3	319.0	268.1	231.9	222.7
65°	314.4	281.2	231.9	198.8	189.5
67.5°	275.8	244.2	198.0	168.7	157.9
70°	239.6	207.3	163.3	137.9	130.2
72.5°	201.1	172.6	131.7	110.9	104.0
75°	167.2	138.7	102.5	84.8	80.1
77.5°	131.7	107.1	76.3	63.9	62.4
80°	97.8	75.5	52.4	50.1	49.3
82.5°	68.6	48.5	37.8	36.2	35.4
85°	41.6	26.2	23.9	22.3	22.3
87.5°	17.7	11.6	10.8	10.0	10.8
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: P1026400

CATALOG NUMBER: S124RDIP-B575D1035UB40-4F0-XX-W2A-F

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)