

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: P1013355

Luminaire Tested: S124RDIP-B575D1035UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013355
REPORT IS A COMBINATION OF REPORTS P999432 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1035UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

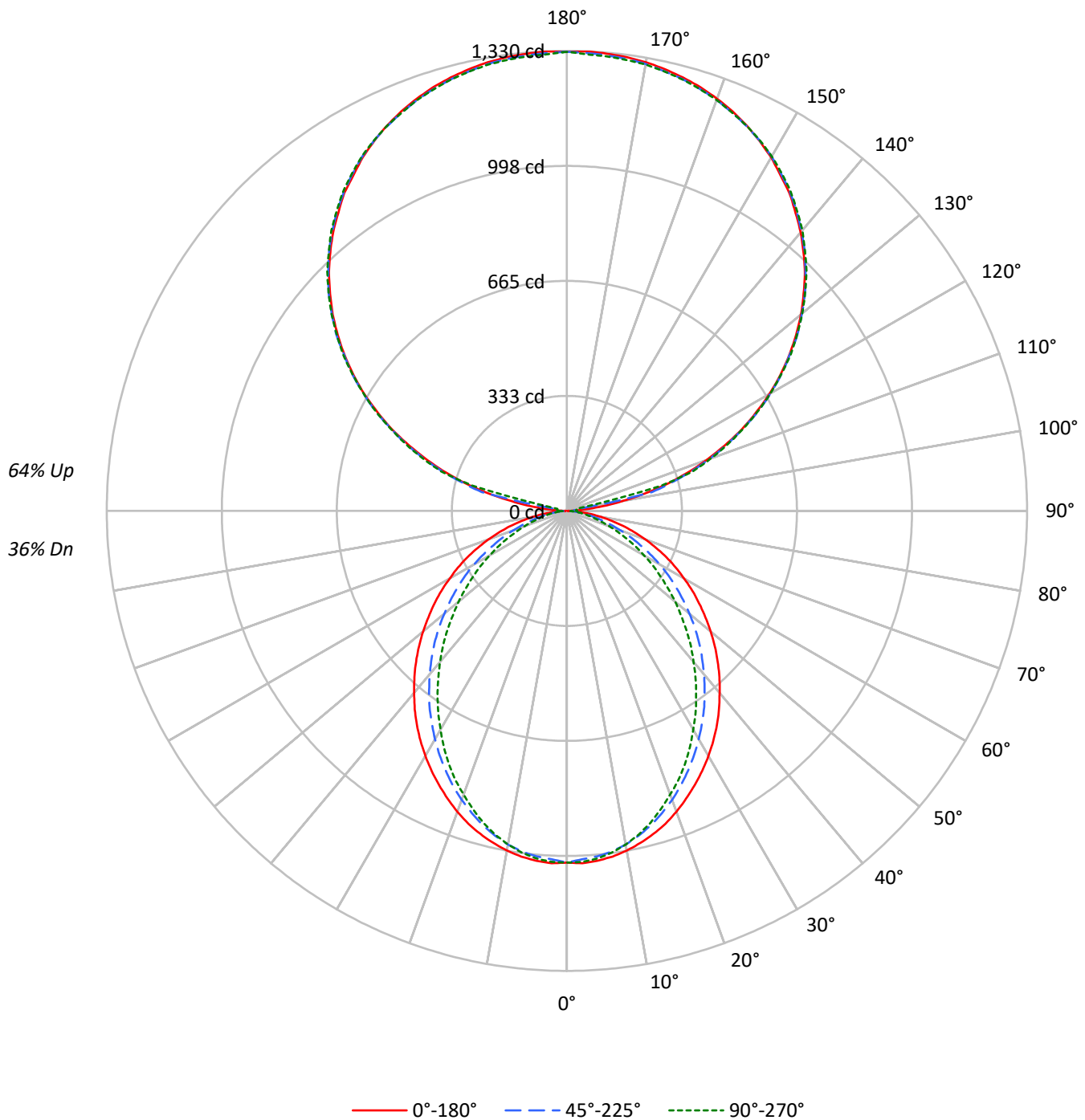
Lumens per Lamp: N/A
Luminaire Lumens: 6458.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1013355

CATALOG NUMBER: S124RDIP-B575D1035UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1013355

CATALOG NUMBER: S124RDIP-B575D1035UB2750-4F0-XX-W2A-F_3500K

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	57	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°	8290	8290	8290
5°	8291	8044	8044
10°	8221	7790	7698
15°	8108	7474	7287
20°	7959	7114	6820
25°	7775	6724	6364
30°	7594	6328	5852
35°	7394	5926	5350
40°	7159	5493	4836
45°	6936	5064	4326
50°	6684	4596	3809
55°	6412	4115	3275
60°	6109	3604	2748
65°	5816	3019	2240
70°	5401	2403	1712
75°	4867	1748	1198
80°	4068	1073	860
85°	3056	618	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6936 cd/sqm

TEST NUMBER: P1013355

CATALOG NUMBER: S124RDIP-B575D1035UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.5
10°-20°	266.5	4.1
20°-30°	384.8	6.0
30°-40°	436.1	6.8
40°-50°	421.1	6.5
50°-60°	350.1	5.4
60°-70°	241.6	3.7
70°-80°	122.1	1.9
80°-90°	33.7	0.5
90°-100°	44.0	0.7
100°-110°	290.1	4.5
110°-120°	553.9	8.6
120°-130°	703.2	10.9
130°-140°	752.3	11.6
140°-150°	703.4	10.9
150°-160°	567.3	8.8
160°-170°	365.8	5.7
170°-180°	126.1	2.0
0°-30°	747.0	11.6
0°-40°	1183.1	18.3
0°-60°	1954.3	30.3
0°-90°	2351.8	36.4
90°-120°	888.1	13.8
90°-150°	3047.1	47.2
90°-180°	4106.0	63.6
0°-180°	6458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1015	1012	1003	1010	1009	96
15°	967	960	940	939	933	272
25°	874	860	828	815	807	403
35°	756	731	692	666	652	472
45°	616	588	541	503	489	475
55°	467	436	385	345	330	418
65°	318	284	234	201	192	314
75°	169	140	104	86	81	178
85°	42	26	24	23	23	46
90°	3	14	22	28	30	5
95°	55	21	22	28	29	67
105°	299	305	310	319	283	313
115°	558	561	560	562	562	549
125°	784	788	786	789	790	700
135°	973	972	976	978	980	750
145°	1122	1124	1124	1126	1128	701
155°	1230	1231	1228	1232	1229	567
165°	1297	1292	1292	1300	1291	367
175°	1327	1321	1322	1331	1319	126
180°	1327	1327	1327	1327	1327	

TEST NUMBER: P1013355

CATALOG NUMBER: S124RDIP-B575D1035UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.6	1016.6	1016.6	1016.6	1016.6
2.5°	1019.7	1016.6	1008.1	1016.6	1015.8
5°	1015.1	1011.9	1002.6	1010.4	1008.8
7.5°	1008.1	1004.9	993.3	998.7	996.4
10°	997.2	993.3	979.3	982.4	979.3
12.5°	983.1	978.5	961.3	962.9	958.2
15°	966.8	959.8	940.3	938.8	933.3
17.5°	948.1	938.0	915.4	911.5	903.7
20°	925.5	915.4	889.0	882.7	872.6
22.5°	900.6	889.0	860.2	850.0	842.3
25°	874.2	860.2	828.2	815.0	807.2
27.5°	846.9	829.8	796.3	780.8	769.9
30°	818.1	798.7	762.1	742.6	730.2
32.5°	787.8	765.2	727.0	703.7	692.0
35°	755.8	730.9	692.0	665.5	651.5
37.5°	722.4	696.7	653.9	625.1	611.1
40°	686.6	660.9	616.5	583.8	569.8
42.5°	652.3	625.1	578.4	544.9	530.1
45°	616.5	587.7	541.0	502.9	488.8
47.5°	579.9	550.3	502.1	462.4	446.8
50°	542.6	512.2	462.4	423.5	408.7
52.5°	504.4	474.8	423.5	383.8	368.2
55°	467.1	435.9	385.3	344.8	330.1
57.5°	430.5	397.8	348.0	306.7	295.8
60°	390.8	359.6	309.8	269.3	256.9
62.5°	355.0	322.3	270.9	234.3	225.0
65°	317.6	284.1	234.3	200.8	191.5
67.5°	278.7	246.8	200.1	170.5	159.6
70°	242.1	209.4	165.0	139.3	131.6
72.5°	203.2	174.4	133.1	112.1	105.1
75°	168.9	140.1	103.5	85.6	81.0
77.5°	133.1	108.2	77.1	64.6	63.1
80°	98.9	76.3	52.9	50.6	49.8
82.5°	69.3	49.0	38.1	36.6	35.8
85°	42.0	26.5	24.1	22.6	22.6
87.5°	17.9	11.7	10.9	10.1	10.9
90°	3.0	13.9	21.8	27.8	29.8
92.5°	14.9	12.9	20.8	26.8	26.8
95°	54.6	20.8	21.8	27.8	28.8
97.5°	104.2	126.1	21.8	26.8	27.8
100°	162.8	180.6	43.7	26.8	27.8
102.5°	228.3	240.2	252.1	28.8	28.8
105°	298.8	304.7	309.7	318.6	282.9
107.5°	363.3	366.2	373.2	378.2	382.1
110°	428.8	431.8	437.7	439.7	442.7

TEST NUMBER: P1013355

CATALOG NUMBER: S124RDIP-B575D1035UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.3	498.3	500.2	499.2	503.2
115°	557.8	560.8	559.8	561.8	561.8
117.5°	616.4	620.3	623.3	622.3	622.3
120°	675.9	679.9	678.9	680.9	678.9
122.5°	731.5	733.5	735.5	736.5	734.5
125°	784.1	788.1	786.1	789.1	790.1
127.5°	834.7	835.7	840.7	839.7	838.7
130°	883.4	884.3	887.3	888.3	888.3
132.5°	928.0	930.0	934.0	935.0	934.0
135°	972.7	971.7	975.7	977.6	979.6
137.5°	1012.4	1012.4	1017.3	1019.3	1018.3
140°	1051.1	1053.1	1055.1	1058.0	1059.0
142.5°	1085.8	1089.8	1090.8	1092.8	1092.8
145°	1121.6	1124.5	1124.5	1125.5	1127.5
147.5°	1149.4	1155.3	1154.3	1155.3	1156.3
150°	1180.1	1184.1	1183.1	1183.1	1184.1
152.5°	1205.9	1208.9	1206.9	1208.9	1207.9
155°	1229.7	1230.7	1227.8	1231.7	1228.8
157.5°	1250.6	1250.6	1246.6	1251.6	1246.6
160°	1268.5	1265.5	1264.5	1270.4	1264.5
162.5°	1284.3	1280.4	1279.4	1285.3	1278.4
165°	1297.2	1292.3	1292.3	1300.2	1291.3
167.5°	1308.2	1303.2	1302.2	1311.1	1301.2
170°	1317.1	1311.1	1312.1	1320.1	1310.1
172.5°	1323.0	1317.1	1318.1	1326.0	1315.1
175°	1327.0	1321.1	1322.1	1331.0	1319.1
177.5°	1330.0	1323.0	1325.0	1333.0	1321.1
180°	1327.0	1327.0	1327.0	1327.0	1327.0

(END OF REPORT)