

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: P1026299

Luminaire Tested: S124RDIP-B350D365UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026299
REPORT IS A COMBINATION OF REPORTS P999319 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D365UB30-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

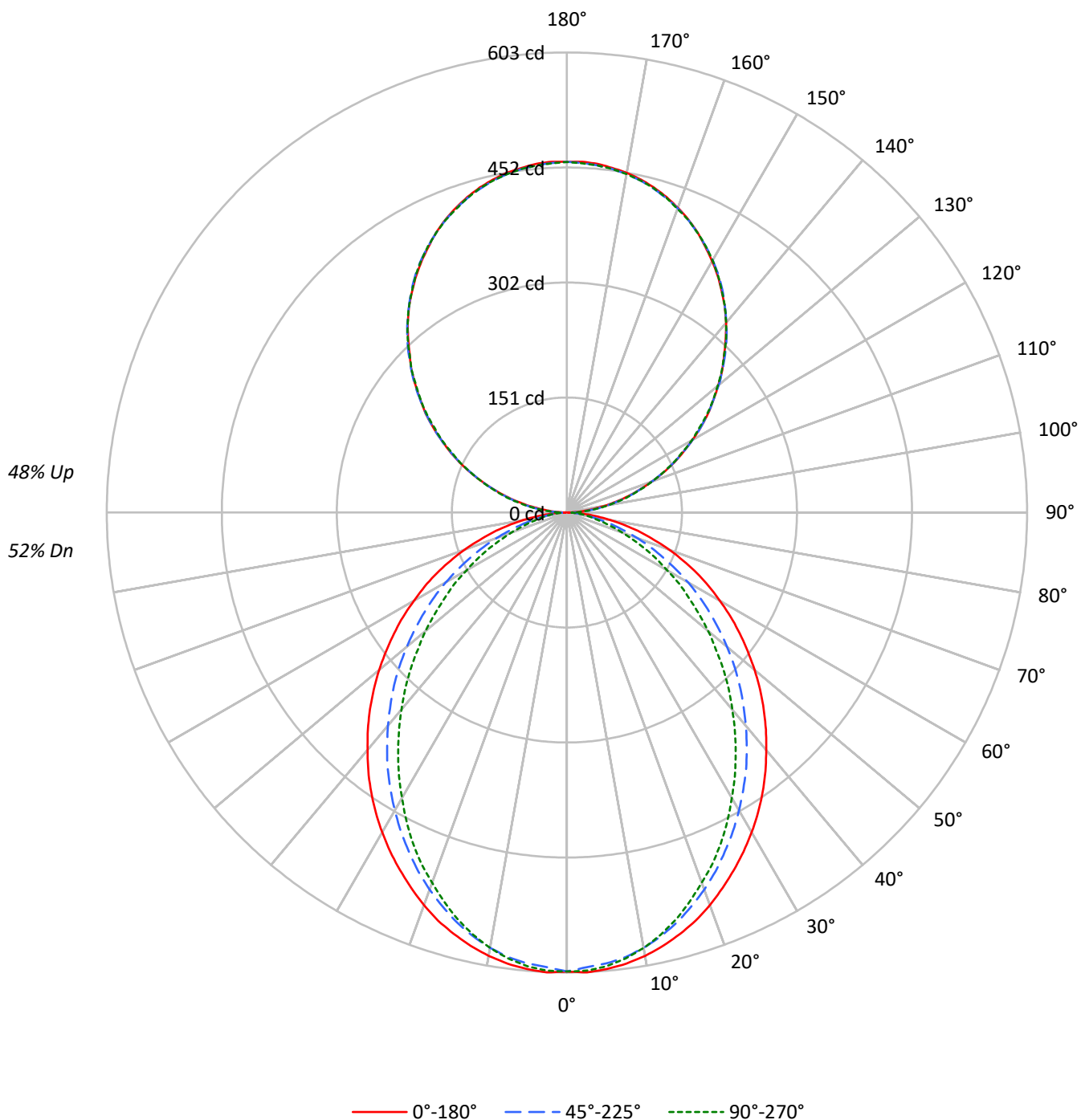
Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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: P1026299

CATALOG NUMBER: S124RDIP-B350D365UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1026299

CATALOG NUMBER: S124RDIP-B350D365UB30-4F0-XX-W2A-F1

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	99	94	91	87	91	87	84	81	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	58	55	53	50	46	44	42
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	38	36
4	75	65	57	51	69	60	53	48	52	47	42	44	40	37	37	34	31
5	69	58	50	44	64	54	47	41	46	41	37	40	35	32	33	30	28
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24
7	59	47	39	34	55	44	37	32	38	33	28	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	20
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4906	4906	4906
5°	4906	4760	4761
10°	4865	4610	4555
15°	4798	4422	4312
20°	4710	4209	4036
25°	4601	3979	3766
30°	4493	3744	3463
35°	4376	3507	3166
40°	4236	3251	2862
45°	4104	2996	2560
50°	3956	2719	2254
55°	3794	2435	1938
60°	3614	2133	1626
65°	3441	1786	1325
70°	3197	1423	1012
75°	2882	1035	708
80°	2406	635	510
85°	1812	366	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4104 cd/sqm

TEST NUMBER: P1026299

CATALOG NUMBER: S124RDIP-B350D365UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	2.1
10°-20°	157.7	5.9
20°-30°	227.7	8.5
30°-40°	258.1	9.7
40°-50°	249.2	9.3
50°-60°	207.2	7.8
60°-70°	143.0	5.4
70°-80°	72.3	2.7
80°-90°	19.3	0.7
90°-100°	30.0	1.1
100°-110°	89.7	3.4
110°-120°	152.4	5.7
120°-130°	201.0	7.5
130°-140°	225.8	8.5
140°-150°	221.9	8.3
150°-160°	186.6	7.0
160°-170°	124.2	4.7
170°-180°	43.5	1.6
0°-30°	442.0	16.6
0°-40°	700.1	26.3
0°-60°	1156.4	43.4
0°-90°	1391.0	52.2
90°-120°	272.1	10.2
90°-150°	920.8	34.5
90°-180°	1275.0	47.8
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	601	599	593	598	597	57
15°	572	568	556	556	552	161
25°	517	509	490	482	478	238
35°	447	432	410	394	386	280
45°	365	348	320	298	289	281
55°	276	258	228	204	195	247
65°	188	168	139	119	113	186
75°	100	83	61	51	48	105
85°	25	16	14	13	13	27
90°	1	5	8	10	11	3
95°	21	24	27	28	28	23
105°	83	83	85	86	87	88
115°	155	155	154	154	154	153
125°	226	226	225	225	224	201
135°	291	293	293	292	291	225
145°	354	355	355	355	354	221
155°	405	405	405	406	405	186
165°	441	440	439	441	440	124
175°	459	457	457	459	457	44
180°	460	460	460	460	460	

TEST NUMBER: P1026299

CATALOG NUMBER: S124RDIP-B350D365UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.6	601.6	601.6	601.6	601.6
2.5°	603.4	601.6	596.5	601.6	601.1
5°	600.7	598.8	593.3	597.9	597.0
7.5°	596.5	594.7	587.8	591.0	589.6
10°	590.1	587.8	579.5	581.3	579.5
12.5°	581.8	579.0	568.9	569.8	567.0
15°	572.1	567.9	556.4	555.5	552.3
17.5°	561.0	555.1	541.7	539.4	534.8
20°	547.7	541.7	526.0	522.3	516.4
22.5°	532.9	526.0	509.0	503.0	498.4
25°	517.3	509.0	490.1	482.3	477.7
27.5°	501.2	491.0	471.2	462.0	455.6
30°	484.1	472.6	450.9	439.4	432.1
32.5°	466.2	452.8	430.2	416.4	409.5
35°	447.3	432.5	409.5	393.8	385.5
37.5°	427.5	412.3	386.9	369.9	361.6
40°	406.3	391.1	364.8	345.5	337.2
42.5°	386.0	369.9	342.2	322.4	313.7
45°	364.8	347.8	320.1	297.6	289.3
47.5°	343.2	325.7	297.1	273.6	264.4
50°	321.1	303.1	273.6	250.6	241.8
52.5°	298.5	281.0	250.6	227.1	217.9
55°	276.4	257.9	228.0	204.1	195.3
57.5°	254.7	235.4	205.9	181.5	175.0
60°	231.2	212.8	183.3	159.4	152.0
62.5°	210.0	190.7	160.3	138.6	133.1
65°	187.9	168.1	138.6	118.8	113.3
67.5°	164.9	146.0	118.4	100.9	94.4
70°	143.3	123.9	97.7	82.5	77.8
72.5°	120.2	103.2	78.8	66.3	62.2
75°	100.0	82.9	61.3	50.7	47.9
77.5°	78.8	64.0	45.6	38.2	37.3
80°	58.5	45.1	31.3	29.9	29.5
82.5°	41.0	29.0	22.6	21.6	21.2
85°	24.9	15.7	14.3	13.4	13.4
87.5°	10.6	6.9	6.4	6.0	6.4
90°	1.1	5.0	7.8	10.0	10.7
92.5°	9.2	13.9	15.6	16.7	17.1
95°	21.3	24.5	27.0	28.1	28.1
97.5°	34.1	37.0	39.8	41.2	41.2
100°	49.8	51.2	54.4	55.1	55.1
102.5°	66.1	66.5	69.3	70.4	70.7
105°	82.8	83.2	84.6	85.7	86.7
107.5°	100.2	100.6	100.9	102.4	102.0
110°	118.0	118.7	118.3	117.6	118.7

TEST NUMBER: P1026299

CATALOG NUMBER: S124RDIP-B350D365UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.5	136.5	135.8	135.8	135.8
115°	155.0	155.0	154.2	153.9	153.5
117.5°	172.4	172.4	172.0	170.9	169.9
120°	189.8	191.2	190.1	188.4	189.1
122.5°	207.9	208.3	207.9	206.8	205.1
125°	225.7	225.7	225.3	224.6	223.9
127.5°	241.7	242.7	242.0	241.3	241.0
130°	258.7	259.8	259.8	259.1	257.7
132.5°	276.1	276.9	276.5	275.8	275.4
135°	291.1	293.2	293.2	292.5	291.4
137.5°	307.8	308.8	309.5	308.5	308.8
140°	324.5	325.2	325.2	324.8	324.5
142.5°	339.8	340.5	340.1	340.1	340.1
145°	353.6	355.0	355.4	355.0	354.0
147.5°	367.8	369.6	369.3	368.9	368.5
150°	380.6	382.1	382.1	382.1	381.7
152.5°	392.7	393.4	393.8	394.8	393.8
155°	405.2	405.2	404.8	406.2	404.8
157.5°	415.8	415.1	415.1	416.2	415.1
160°	425.1	424.7	424.3	425.4	423.6
162.5°	433.6	432.5	432.2	434.3	432.5
165°	441.0	440.0	439.3	441.4	440.0
167.5°	447.1	445.7	445.7	447.8	445.7
170°	452.1	450.3	450.6	452.8	450.3
172.5°	455.6	454.2	454.2	456.7	454.2
175°	458.8	457.0	456.7	459.2	456.7
177.5°	460.2	458.5	458.5	460.9	458.1
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)