

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: P1026359

Luminaire Tested: S124RDIP-B350D810UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026359
REPORT IS A COMBINATION OF REPORTS P999399 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D810UB30-4F0-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

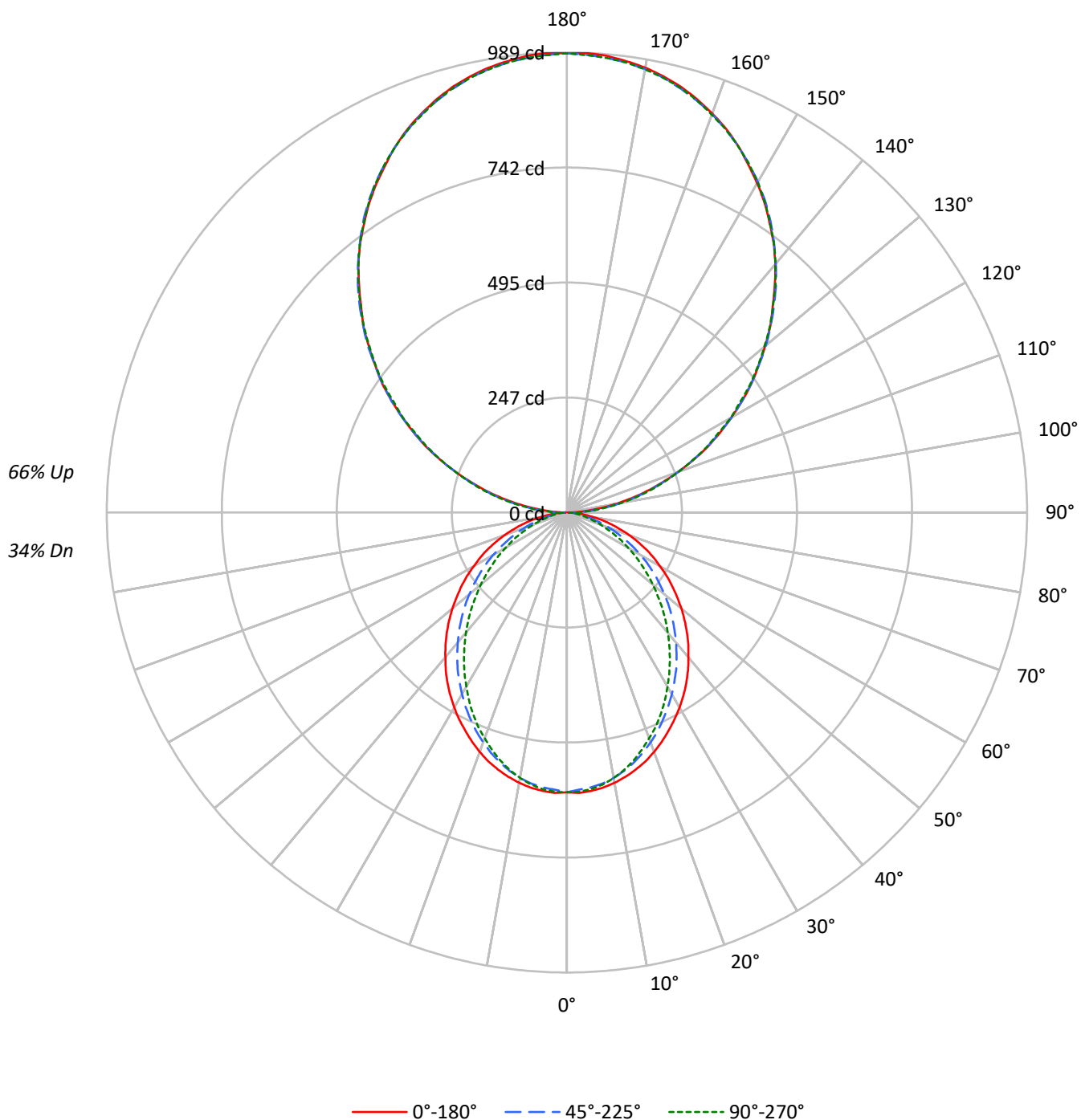
Lumens per Lamp: N/A
Luminaire Lumens: 4131.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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: P1026359

CATALOG NUMBER: S124RDIP-B350D810UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



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CATALOG NUMBER: S124RDIP-B350D810UB30-4F0-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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	90	86	83	85	82	78	76	65	63	61	50	49	48	37	36	35
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30
3	79	69	62	57	71	63	57	52	51	46	43	39	36	34	29	27	26
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22
5	66	55	47	41	59	50	43	38	40	35	32	32	28	25	23	21	19
6	61	49	41	36	55	45	38	33	36	31	28	29	25	22	21	19	17
7	56	44	37	31	50	40	34	29	33	28	24	26	22	20	19	17	15
8	52	40	33	27	47	37	30	25	30	25	21	24	20	18	18	15	14
9	48	37	29	24	44	33	27	23	27	23	19	22	18	16	16	14	12
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11

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: P1026359

CATALOG NUMBER: S124RDIP-B350D810UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.4
10°-20°	157.7	3.8
20°-30°	227.7	5.5
30°-40°	258.1	6.2
40°-50°	249.2	6.0
50°-60°	207.2	5.0
60°-70°	143.0	3.5
70°-80°	72.3	1.7
80°-90°	20.5	0.5
90°-100°	64.3	1.6
100°-110°	192.7	4.7
110°-120°	327.4	7.9
120°-130°	431.8	10.5
130°-140°	485.0	11.7
140°-150°	476.7	11.5
150°-160°	400.9	9.7
160°-170°	266.7	6.5
170°-180°	93.4	2.3
0°-30°	442.0	10.7
0°-40°	700.1	16.9
0°-60°	1156.4	28.0
0°-90°	1392.1	33.7
90°-120°	584.5	14.1
90°-150°	1977.9	47.9
90°-180°	2739.0	66.3
0°-180°	4131.0	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°	2	11	17	21	23	5
95°	46	53	58	60	60	50
105°	178	179	182	184	186	189
115°	333	333	331	331	330	328
125°	485	485	484	482	481	432
135°	625	630	630	628	626	484
145°	760	763	763	763	760	475
155°	870	870	870	873	870	401
165°	947	945	944	948	945	267
175°	986	982	981	986	981	94
180°	987	987	987	987	987	

TEST NUMBER: P1026359

CATALOG NUMBER: S124RDIP-B350D810UB30-4F0-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°	2.3	10.7	16.8	21.4	22.9
92.5°	19.8	29.8	33.6	35.9	36.6
95°	45.8	52.7	58.0	60.3	60.3
97.5°	73.3	79.4	85.5	88.6	88.6
100°	106.9	109.9	116.8	118.3	118.3
102.5°	142.0	142.8	148.9	151.2	151.9
105°	177.9	178.6	181.7	184.0	186.3
107.5°	215.3	216.1	216.8	219.9	219.1
110°	253.5	255.0	254.2	252.7	255.0

TEST NUMBER: P1026359

CATALOG NUMBER: S124RDIP-B350D810UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	293.2	291.6	291.6	291.6
115°	332.9	332.9	331.3	330.6	329.8
117.5°	370.3	370.3	369.5	367.2	364.9
120°	407.7	410.7	408.4	404.6	406.1
122.5°	446.6	447.4	446.6	444.3	440.5
125°	484.8	484.8	484.0	482.5	481.0
127.5°	519.1	521.4	519.9	518.4	517.6
130°	555.8	558.1	558.1	556.5	553.5
132.5°	593.2	594.7	594.0	592.4	591.7
135°	625.3	629.8	629.8	628.3	626.0
137.5°	661.1	663.4	664.9	662.7	663.4
140°	697.0	698.5	698.5	697.8	697.0
142.5°	729.8	731.4	730.6	730.6	730.6
145°	759.6	762.7	763.4	762.7	760.4
147.5°	790.2	794.0	793.2	792.4	791.7
150°	817.6	820.7	820.7	820.7	819.9
152.5°	843.6	845.1	845.9	848.2	845.9
155°	870.3	870.3	869.5	872.6	869.5
157.5°	893.2	891.7	891.7	894.0	891.7
160°	913.1	912.3	911.5	913.8	910.0
162.5°	931.4	929.1	928.3	932.9	929.1
165°	947.4	945.1	943.6	948.2	945.1
167.5°	960.4	957.3	957.3	961.9	957.3
170°	971.1	967.3	968.0	972.6	967.3
172.5°	978.7	975.7	975.7	981.0	975.7
175°	985.6	981.8	981.0	986.4	981.0
177.5°	988.6	984.8	984.8	990.2	984.1
180°	987.1	987.1	987.1	987.1	987.1

(END OF REPORT)