

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: P1034084

Luminaire Tested: S124RDIW-B350D470UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034084
REPORT IS A COMBINATION OF REPORTS P1000414 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B350D470UB30-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

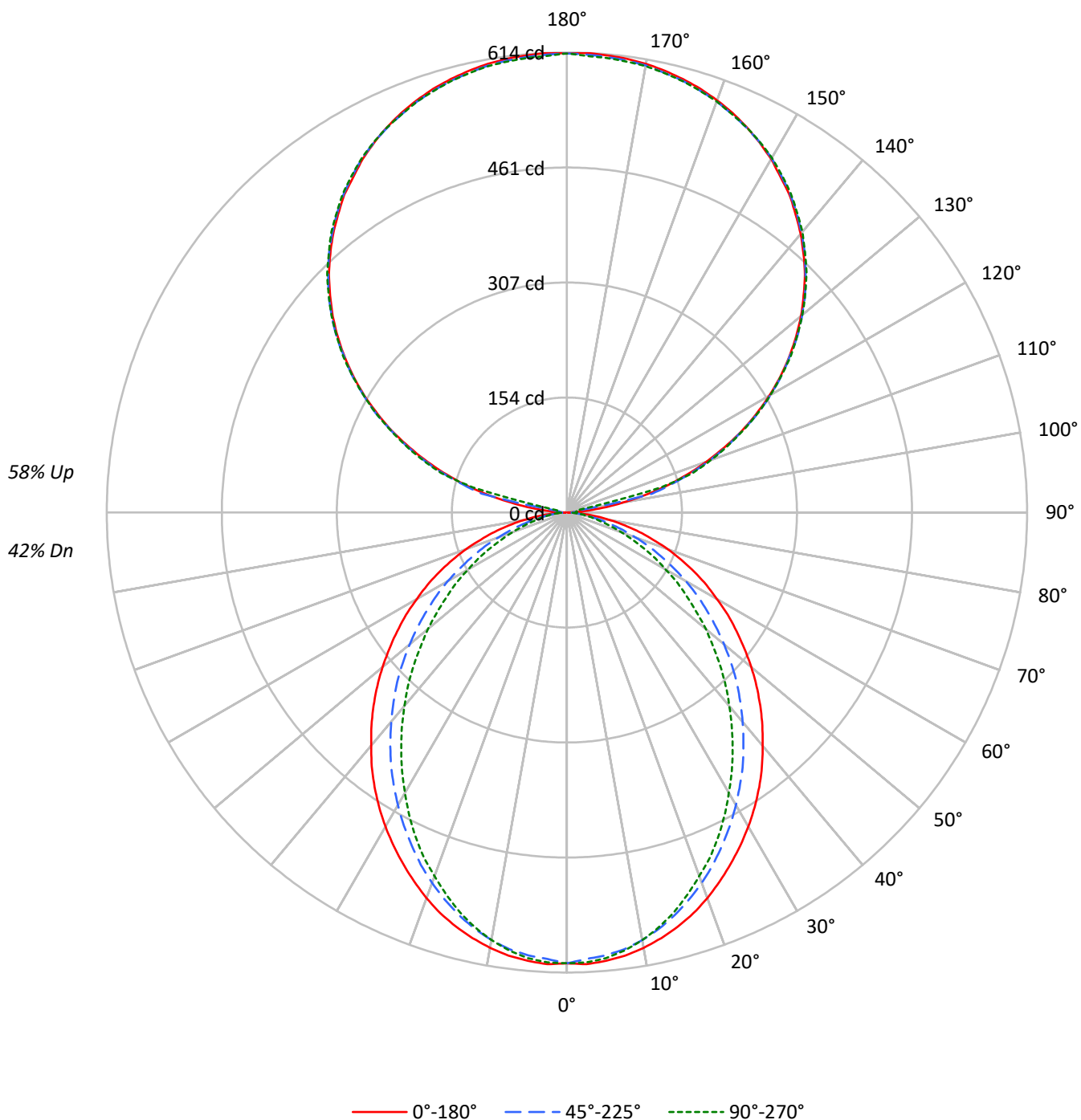
Lumens per Lamp: N/A
Luminaire Lumens: 3287.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
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: P1034084

CATALOG NUMBER: S124RDIW-B350D470UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1034084

CATALOG NUMBER: S124RDIW-B350D470UB30-4F0-XX-W2A-F

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42
2	88	81	75	70	80	74	69	65	61	58	54	50	47	45	39	37	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	28	26
5	67	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	29	49	38	31	27	32	27	23	27	23	20	21	19	16
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14

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: P1034084

CATALOG NUMBER: S124RDIW-B350D470UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.7
10°-20°	157.7	4.8
20°-30°	227.7	6.9
30°-40°	258.1	7.9
40°-50°	249.2	7.6
50°-60°	207.2	6.3
60°-70°	143.0	4.3
70°-80°	72.3	2.2
80°-90°	19.6	0.6
90°-100°	20.3	0.6
100°-110°	133.9	4.1
110°-120°	255.7	7.8
120°-130°	324.6	9.9
130°-140°	347.3	10.6
140°-150°	324.8	9.9
150°-160°	261.9	8.0
160°-170°	168.9	5.1
170°-180°	58.2	1.8
0°-30°	442.0	13.4
0°-40°	700.1	21.3
0°-60°	1156.4	35.2
0°-90°	1391.3	42.3
90°-120°	410.0	12.5
90°-150°	1406.7	42.8
90°-180°	1896.0	57.7
0°-180°	3287.0	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	6	10	13	14	3
95°	25	10	10	13	13	31
105°	138	141	143	147	131	144
115°	258	259	258	259	259	253
125°	362	364	363	364	365	323
135°	449	449	450	451	452	346
145°	518	519	519	520	520	324
155°	568	568	567	569	567	262
165°	599	597	597	600	596	169
175°	613	610	610	614	609	58
180°	613	613	613	613	613	

TEST NUMBER: P1034084

CATALOG NUMBER: S124RDIW-B350D470UB30-4F0-XX-W2A-F

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°	1.4	6.4	10.1	12.8	13.7
92.5°	6.9	6.0	9.6	12.4	12.4
95°	25.2	9.6	10.1	12.8	13.3
97.5°	48.1	58.2	10.1	12.4	12.8
100°	75.1	83.4	20.2	12.4	12.8
102.5°	105.4	110.9	116.4	13.3	13.3
105°	137.9	140.7	143.0	147.1	130.6
107.5°	167.7	169.1	172.3	174.6	176.4
110°	198.0	199.3	202.1	203.0	204.4

TEST NUMBER: P1034084

CATALOG NUMBER: S124RDIW-B350D470UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.3	230.0	230.9	230.5	232.3
115°	257.5	258.9	258.4	259.4	259.4
117.5°	284.6	286.4	287.8	287.3	287.3
120°	312.0	313.9	313.4	314.3	313.4
122.5°	337.7	338.6	339.5	340.0	339.1
125°	362.0	363.8	362.9	364.3	364.7
127.5°	385.4	385.8	388.1	387.7	387.2
130°	407.8	408.3	409.7	410.1	410.1
132.5°	428.4	429.4	431.2	431.6	431.2
135°	449.1	448.6	450.4	451.3	452.3
137.5°	467.4	467.4	469.7	470.6	470.1
140°	485.3	486.2	487.1	488.5	488.9
142.5°	501.3	503.1	503.6	504.5	504.5
145°	517.8	519.2	519.2	519.6	520.5
147.5°	530.6	533.4	532.9	533.4	533.8
150°	544.8	546.7	546.2	546.2	546.7
152.5°	556.7	558.1	557.2	558.1	557.7
155°	567.7	568.2	566.8	568.7	567.3
157.5°	577.4	577.4	575.5	577.8	575.5
160°	585.6	584.2	583.8	586.5	583.8
162.5°	592.9	591.1	590.6	593.4	590.2
165°	598.9	596.6	596.6	600.3	596.1
167.5°	603.9	601.6	601.2	605.3	600.7
170°	608.1	605.3	605.8	609.4	604.9
172.5°	610.8	608.1	608.5	612.2	607.1
175°	612.6	609.9	610.4	614.5	609.0
177.5°	614.0	610.8	611.7	615.4	609.9
180°	612.6	612.6	612.6	612.6	612.6

(END OF REPORT)