

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: P1032977

Luminaire Tested: S124RDIW-B350D470UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032977
REPORT IS A COMBINATION OF REPORTS P1000408 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B350D470UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

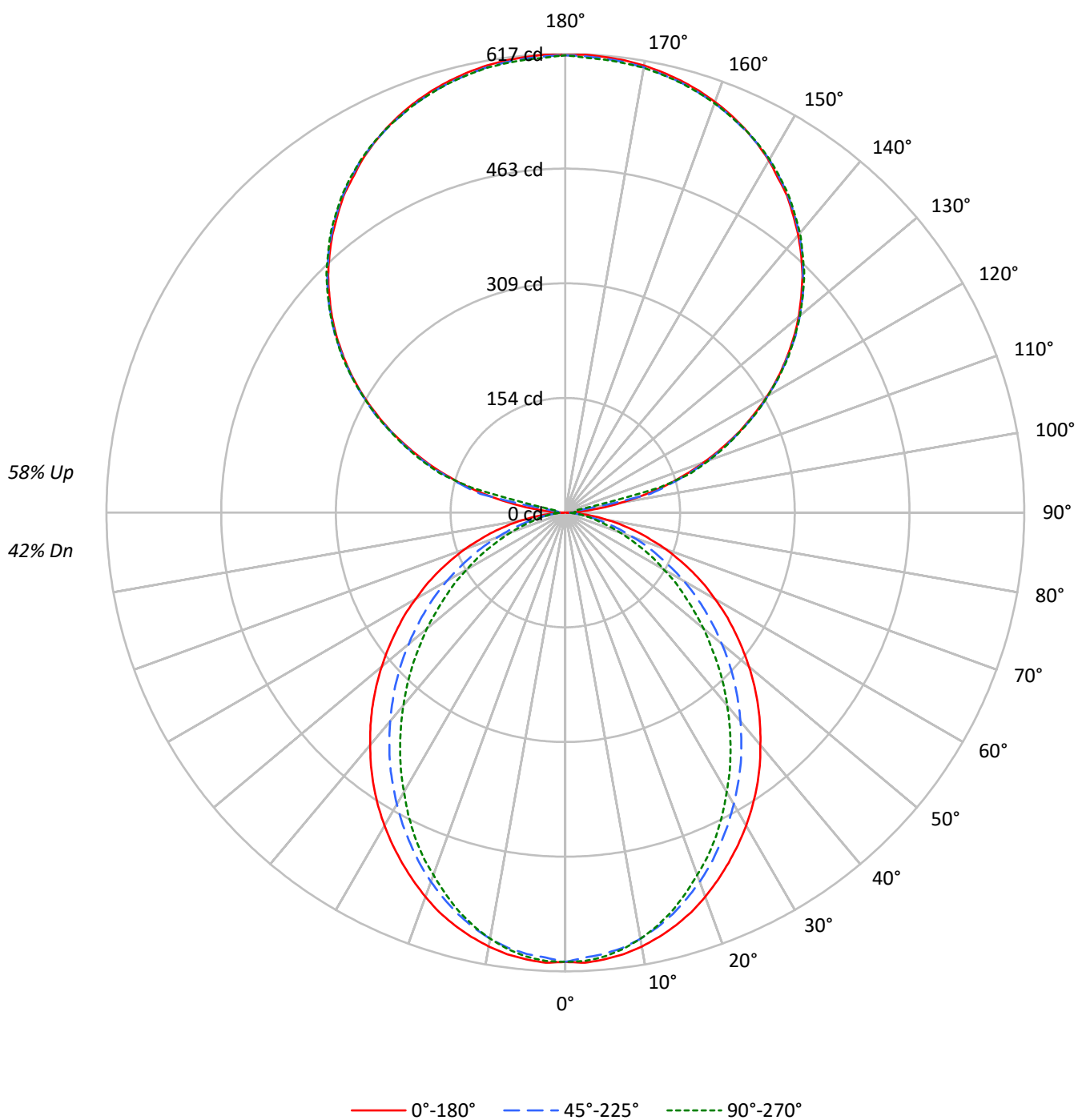
Lumens per Lamp: N/A
Luminaire Lumens: 3301.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1032977

CATALOG NUMBER: S124RDIW-B350D470UB2750-4F0-XX-W2A-F_3500K

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	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°	4927	4927	4927
5°	4927	4780	4781
10°	4885	4630	4575
15°	4819	4441	4331
20°	4730	4228	4053
25°	4620	3996	3782
30°	4513	3761	3477
35°	4395	3522	3180
40°	4254	3265	2874
45°	4122	3010	2571
50°	3972	2731	2264
55°	3811	2446	1946
60°	3630	2142	1633
65°	3456	1794	1331
70°	3210	1429	1017
75°	2893	1039	711
80°	2418	639	511
85°	1819	366	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4122 cd/sqm

TEST NUMBER: P1032977

CATALOG NUMBER: S124RDIW-B350D470UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.7
10°-20°	158.4	4.8
20°-30°	228.7	6.9
30°-40°	259.2	7.9
40°-50°	250.3	7.6
50°-60°	208.1	6.3
60°-70°	143.6	4.4
70°-80°	72.6	2.2
80°-90°	19.7	0.6
90°-100°	20.4	0.6
100°-110°	134.5	4.1
110°-120°	256.8	7.8
120°-130°	326.0	9.9
130°-140°	348.8	10.6
140°-150°	326.1	9.9
150°-160°	263.0	8.0
160°-170°	169.6	5.1
170°-180°	58.5	1.8
0°-30°	443.9	13.4
0°-40°	703.1	21.3
0°-60°	1161.4	35.2
0°-90°	1397.3	42.3
90°-120°	411.7	12.5
90°-150°	1412.7	42.8
90°-180°	1904.0	57.7
0°-180°	3301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	603	601	596	600	600	57
15°	575	570	559	558	555	162
25°	520	511	492	484	480	239
35°	449	434	411	396	387	281
45°	366	349	322	299	290	283
55°	278	259	229	205	196	248
65°	189	169	139	119	114	186
75°	100	83	62	51	48	106
85°	25	16	14	13	13	27
90°	1	6	10	13	14	3
95°	25	10	10	13	13	31
105°	138	141	144	148	131	145
115°	259	260	260	260	260	255
125°	364	365	364	366	366	325
135°	451	450	452	453	454	347
145°	520	521	521	522	523	325
155°	570	571	569	571	570	263
165°	601	599	599	603	599	170
175°	615	612	613	617	612	59
180°	615	615	615	615	615	

TEST NUMBER: P1032977

CATALOG NUMBER: S124RDIW-B350D470UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.2	604.2	604.2	604.2	604.2
2.5°	606.0	604.2	599.1	604.2	603.7
5°	603.2	601.4	595.8	600.5	599.5
7.5°	599.1	597.2	590.3	593.5	592.1
10°	592.6	590.3	582.0	583.8	582.0
12.5°	584.3	581.5	571.3	572.3	569.5
15°	574.6	570.4	558.8	557.9	554.7
17.5°	563.5	557.4	544.0	541.7	537.1
20°	550.0	544.0	528.3	524.6	518.6
22.5°	535.2	528.3	511.2	505.2	500.5
25°	519.5	511.2	492.2	484.4	479.7
27.5°	503.3	493.1	473.3	464.0	457.5
30°	486.2	474.6	452.9	441.3	433.9
32.5°	468.2	454.7	432.1	418.2	411.3
35°	449.2	434.4	411.3	395.5	387.2
37.5°	429.3	414.0	388.6	371.5	363.1
40°	408.0	392.8	366.4	347.0	338.6
42.5°	387.7	371.5	343.7	323.8	315.0
45°	366.4	349.3	321.5	298.8	290.5
47.5°	344.6	327.1	298.4	274.8	265.5
50°	322.4	304.4	274.8	251.7	242.9
52.5°	299.8	282.2	251.7	228.1	218.8
55°	277.6	259.1	229.0	204.9	196.1
57.5°	255.8	236.4	206.8	182.3	175.8
60°	232.2	213.7	184.1	160.1	152.7
62.5°	211.0	191.5	161.0	139.2	133.7
65°	188.7	168.9	139.2	119.4	113.8
67.5°	165.6	146.6	118.9	101.3	94.8
70°	143.9	124.4	98.1	82.8	78.2
72.5°	120.7	103.6	79.1	66.6	62.5
75°	100.4	83.3	61.5	50.9	48.1
77.5°	79.1	64.3	45.8	38.4	37.5
80°	58.8	45.3	31.5	30.1	29.6
82.5°	41.2	29.1	22.7	21.7	21.3
85°	25.0	15.7	14.3	13.4	13.4
87.5°	10.6	6.9	6.5	6.0	6.5
90°	1.4	6.4	10.1	12.9	13.8
92.5°	6.9	6.0	9.7	12.4	12.4
95°	25.3	9.7	10.1	12.9	13.3
97.5°	48.3	58.4	10.1	12.4	12.9
100°	75.5	83.7	20.2	12.4	12.9
102.5°	105.8	111.4	116.9	13.3	13.3
105°	138.5	141.3	143.6	147.7	131.1
107.5°	168.4	169.8	173.0	175.3	177.2
110°	198.8	200.2	202.9	203.8	205.2

TEST NUMBER: P1032977

CATALOG NUMBER: S124RDIW-B350D470UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.2	231.0	231.9	231.5	233.3
115°	258.6	260.0	259.5	260.4	260.4
117.5°	285.8	287.6	289.0	288.5	288.5
120°	313.4	315.2	314.7	315.7	314.7
122.5°	339.1	340.1	341.0	341.4	340.5
125°	363.5	365.4	364.4	365.8	366.3
127.5°	387.0	387.5	389.8	389.3	388.8
130°	409.5	410.0	411.4	411.8	411.8
132.5°	430.2	431.2	433.0	433.5	433.0
135°	451.0	450.5	452.3	453.3	454.2
137.5°	469.4	469.4	471.7	472.6	472.1
140°	487.3	488.2	489.1	490.5	491.0
142.5°	503.4	505.3	505.7	506.6	506.6
145°	520.0	521.4	521.4	521.8	522.7
147.5°	532.9	535.6	535.2	535.6	536.1
150°	547.1	549.0	548.5	548.5	549.0
152.5°	559.1	560.5	559.5	560.5	560.0
155°	570.1	570.6	569.2	571.1	569.7
157.5°	579.8	579.8	578.0	580.3	578.0
160°	588.1	586.7	586.2	589.0	586.2
162.5°	595.4	593.6	593.1	595.9	592.7
165°	601.4	599.1	599.1	602.8	598.7
167.5°	606.5	604.2	603.7	607.9	603.3
170°	610.6	607.9	608.3	612.0	607.4
172.5°	613.4	610.6	611.1	614.8	609.7
175°	615.2	612.5	612.9	617.1	611.5
177.5°	616.6	613.4	614.3	618.0	612.5
180°	615.2	615.2	615.2	615.2	615.2

(END OF REPORT)