

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: P983494

Luminaire Tested: S125IW-B470UB40-4F0-XX-W2A-1

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IW-B470UB40-4F0-XX-W2A-1
Description: Define 5 Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

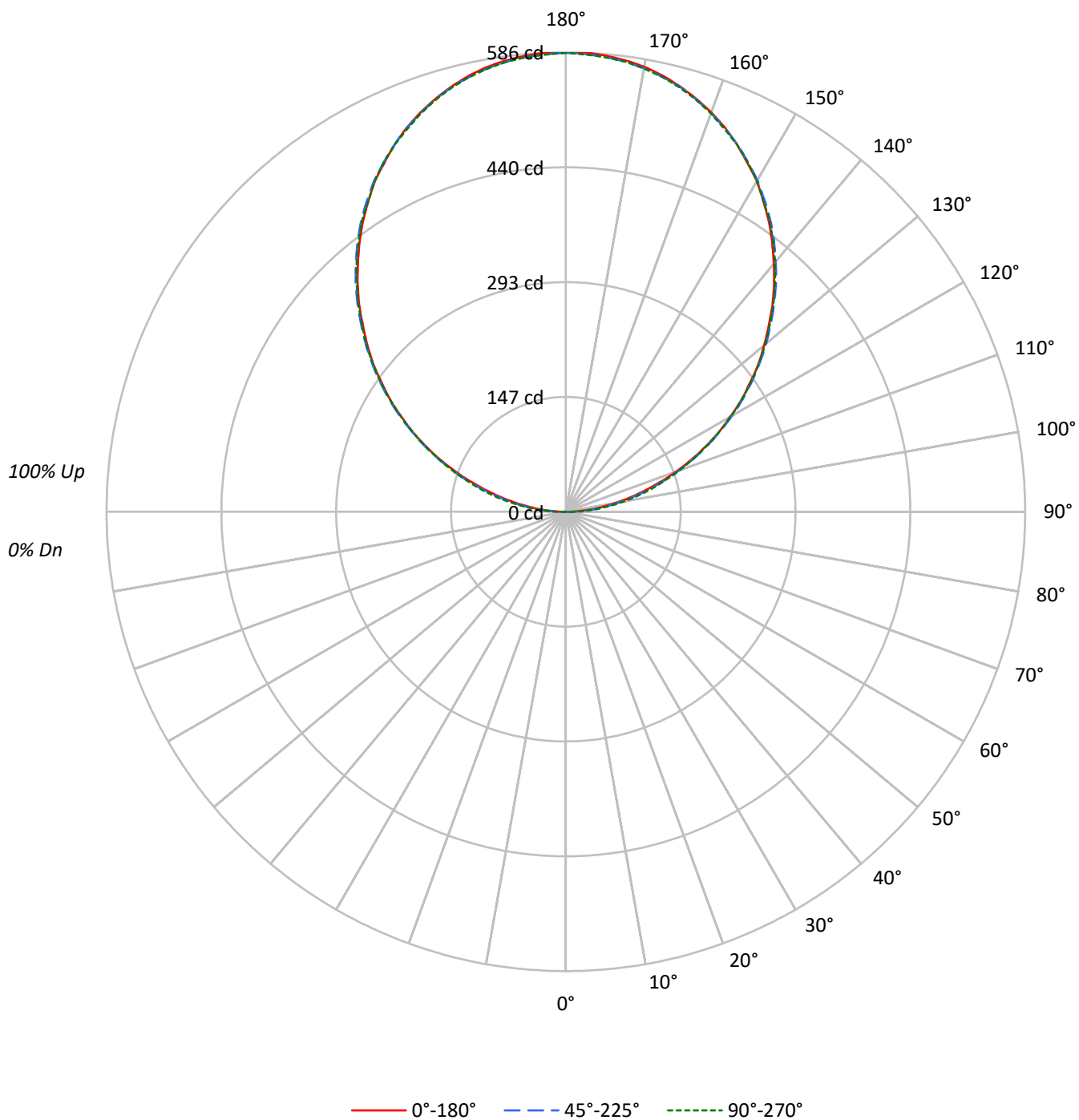
Lumens per Lamp: N/A
Luminaire Lumens: 1635.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 13.2
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: P983494

CATALOG NUMBER: S125IW-B470UB40-4F0-XX-W2A-1

Luminous Intensity Polar Plot



TEST NUMBER: P983494

CATALOG NUMBER: S125IW-B470UB40-4F0-XX-W2A-1

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

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

TEST NUMBER: P983494

CATALOG NUMBER: S125IW-B470UB40-4F0-XX-W2A-1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.9	0.1
90°-100°	38.9	2.4
100°-110°	115.7	7.1
110°-120°	196.2	12.0
120°-130°	258.2	15.8
130°-140°	289.4	17.7
140°-150°	283.6	17.3
150°-160°	238.3	14.6
160°-170°	158.4	9.7
170°-180°	55.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.1
90°-120°	350.8	21.5
90°-150°	1182.0	72.3
90°-180°	1634.0	99.9
0°-180°	1635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	4	7	10	11	2
95°	30	30	35	38	39	31
105°	104	106	109	112	113	111
115°	196	198	199	199	198	194
125°	287	289	290	289	288	257
135°	373	376	376	376	374	287
145°	452	453	455	455	453	282
155°	517	517	517	519	517	238
165°	562	561	561	563	560	159
175°	584	582	582	585	582	56
180°	586	586	586	586	586	

TEST NUMBER: P983494

CATALOG NUMBER: S125IW-B470UB40-4F0-XX-W2A-1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.5	4.1	7.3	9.6	10.9
92.5°	13.7	15.9	20.0	23.2	24.1
95°	29.6	30.5	35.1	38.3	39.2
97.5°	45.6	46.0	52.4	55.1	55.6
100°	63.8	63.8	69.7	73.8	74.7
102.5°	83.4	85.7	87.9	92.5	93.9
105°	103.9	106.2	108.9	111.6	113.0
107.5°	126.2	128.5	130.8	132.1	132.1
110°	149.5	151.7	153.1	154.5	154.0

TEST NUMBER: P983494

CATALOG NUMBER: S125IW-B470UB40-4F0-XX-W2A-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.1	174.1	175.9	176.3	175.4
115°	196.4	198.2	199.1	198.7	198.2
117.5°	220.1	220.5	221.4	221.9	220.1
120°	241.9	244.2	244.7	244.7	242.9
122.5°	265.6	266.1	267.5	267.0	265.6
125°	286.6	289.3	289.8	288.9	288.4
127.5°	309.8	311.2	311.7	311.2	310.3
130°	330.3	332.6	333.5	333.1	332.2
132.5°	350.8	354.9	354.5	354.0	352.7
135°	372.7	375.5	375.9	375.9	374.1
137.5°	393.2	396.0	396.9	397.3	395.0
140°	412.8	415.1	416.5	417.4	415.1
142.5°	432.4	434.2	436.1	436.5	434.2
145°	451.5	453.4	454.7	454.7	453.4
147.5°	469.3	470.7	471.6	473.0	469.3
150°	487.1	486.6	488.4	488.4	487.5
152.5°	501.7	502.6	503.0	504.4	502.6
155°	516.7	516.7	517.2	519.0	516.7
157.5°	530.4	529.5	529.9	531.7	528.5
160°	542.2	540.8	541.3	543.1	540.8
162.5°	552.7	551.8	551.8	554.1	551.3
165°	561.8	560.9	561.4	563.2	560.4
167.5°	570.0	568.2	568.2	570.9	568.2
170°	576.4	574.6	574.6	577.3	574.1
172.5°	580.9	579.1	579.1	581.9	579.1
175°	584.1	582.3	582.3	585.0	581.9
177.5°	586.4	584.6	584.1	586.9	583.7
180°	585.5	585.5	585.5	585.5	585.5

(END OF REPORT)