

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: P983495

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

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P983495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IW-B470UB40-4F0-XX-W2A
Description: Define 5 Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

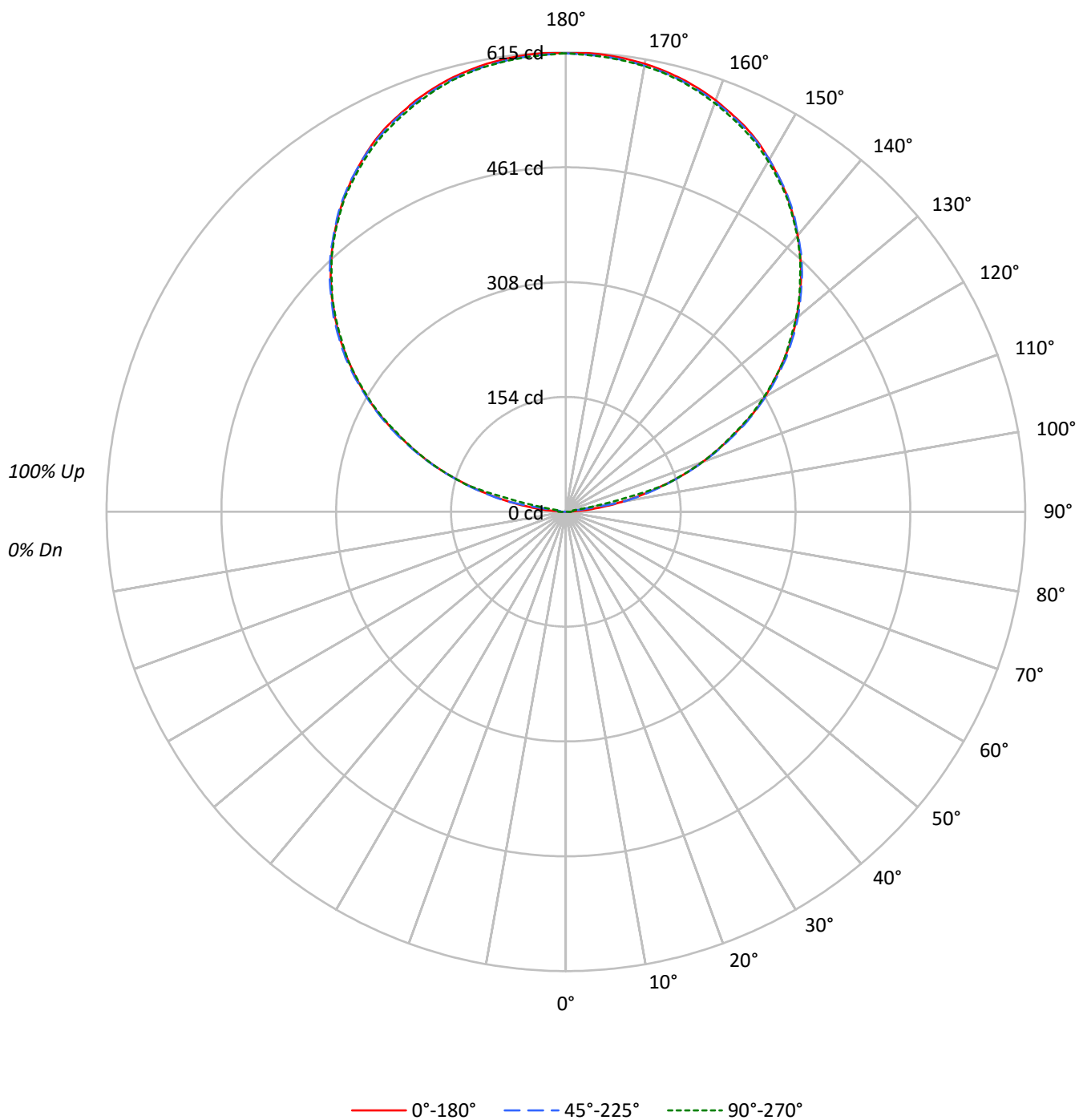
Lumens per Lamp: N/A
Luminaire Lumens: 1886.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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: P983495

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

Luminous Intensity Polar Plot





TEST NUMBER: P983495

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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	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: P983495

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

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	0.0
90°-100°	20.8	1.1
100°-110°	138.5	7.3
110°-120°	249.4	13.2
120°-130°	320.1	17.0
130°-140°	344.3	18.3
140°-150°	323.1	17.1
150°-160°	261.4	13.9
160°-170°	169.1	9.0
170°-180°	58.3	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.0
90°-120°	408.8	21.7
90°-150°	1396.4	74.0
90°-180°	1885.0	99.9
0°-180°	1886.0	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	1
95°	26	25	7	10	10	32
105°	134	136	136	136	135	142
115°	251	253	254	252	249	249
125°	357	360	360	358	357	319
135°	445	448	447	446	444	343
145°	516	517	517	518	515	323
155°	569	566	567	568	564	262
165°	600	597	598	600	597	170
175°	614	611	611	615	611	58
180°	614	614	614	614	614	

TEST NUMBER: P983495

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

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°	8.6	4.5	7.3	9.6	10.0
95°	25.9	24.6	7.3	9.6	9.6
97.5°	48.7	51.4	8.2	9.1	9.6
100°	76.0	77.3	79.2	11.4	9.6
102.5°	103.7	105.5	106.4	107.4	69.1
105°	133.7	135.6	135.6	135.6	135.1
107.5°	164.7	164.7	165.6	166.0	164.2
110°	194.7	194.7	195.6	194.2	194.7

TEST NUMBER: P983495

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.9	224.3	224.7	222.9	222.0
115°	251.1	253.4	253.8	252.0	249.3
117.5°	280.7	280.7	282.5	279.8	278.9
120°	308.0	307.5	308.9	308.0	305.7
122.5°	332.1	334.4	334.8	333.9	331.2
125°	357.1	360.3	360.3	358.5	357.1
127.5°	381.2	383.5	383.0	382.1	378.5
130°	403.1	405.3	405.8	404.4	402.1
132.5°	424.9	427.6	426.3	426.3	424.0
135°	445.4	448.1	447.2	446.3	443.5
137.5°	464.5	467.2	466.3	466.3	464.0
140°	483.1	484.0	483.6	484.5	481.8
142.5°	499.9	500.4	501.3	501.3	498.6
145°	516.3	517.2	517.2	517.7	515.0
147.5°	530.9	530.9	531.3	531.8	528.6
150°	544.5	543.6	544.5	545.4	541.8
152.5°	557.7	555.4	556.4	557.3	554.1
155°	568.6	565.9	566.8	568.2	564.5
157.5°	577.3	575.9	575.9	577.3	573.6
160°	586.4	583.7	584.1	585.9	582.3
162.5°	593.7	590.9	591.4	594.1	590.0
165°	600.0	597.3	597.8	600.5	596.8
167.5°	605.0	602.3	602.8	605.9	601.9
170°	609.1	605.9	606.4	610.0	605.9
172.5°	611.9	608.7	609.6	612.8	608.7
175°	613.7	610.9	611.4	615.0	610.9
177.5°	615.0	612.3	612.8	616.0	612.3
180°	613.7	613.7	613.7	613.7	613.7

(END OF REPORT)