

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: P1007610

Luminaire Tested: S123IP-B805UB35-4F0-XX-W2A-1

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B805UB35-4F0-XX-W2A-1
Description: Define 3 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

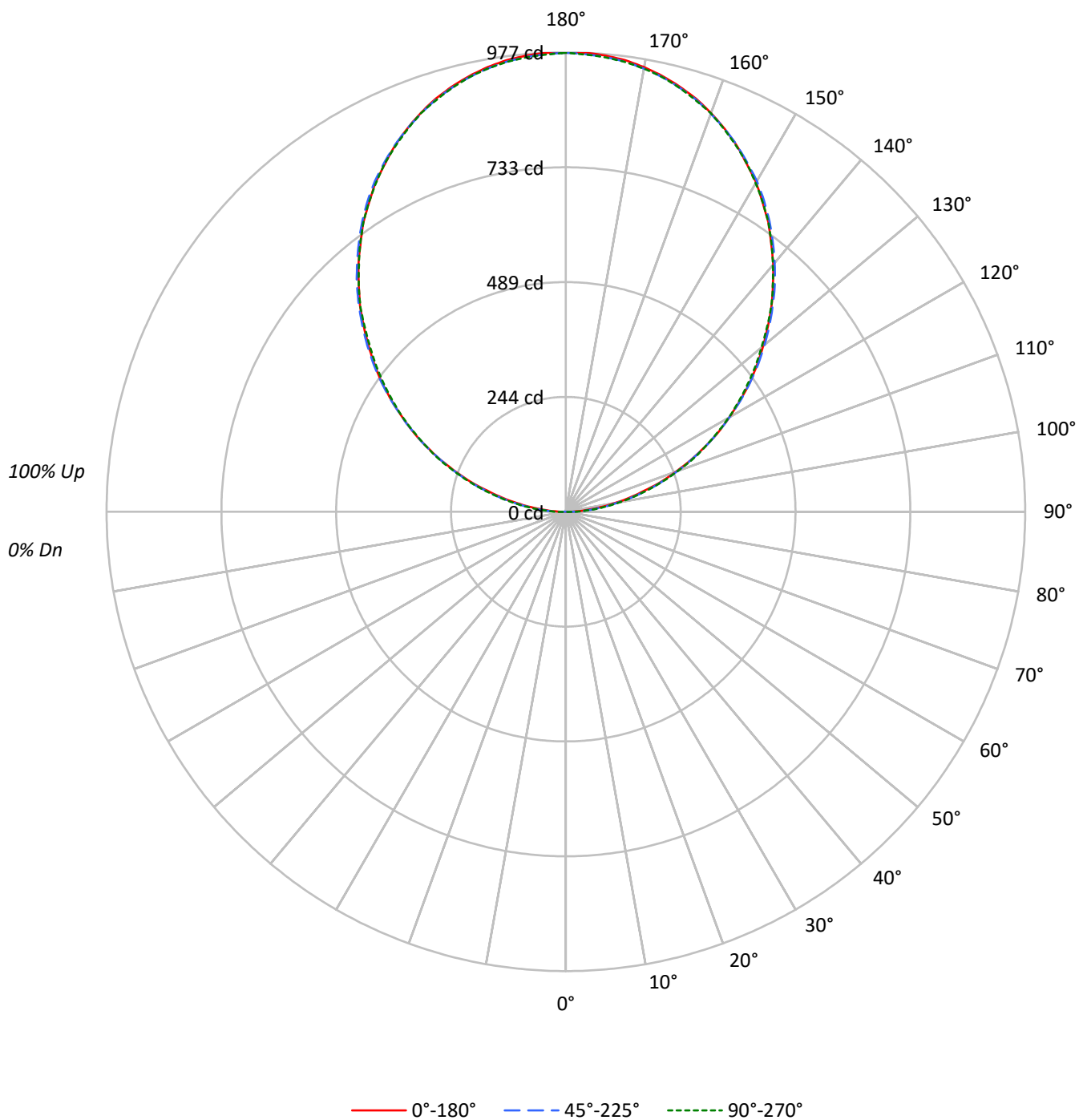
Lumens per Lamp: N/A
Luminaire Lumens: 2707.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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: P1007610

CATALOG NUMBER: S123IP-B805UB35-4F0-XX-W2A-1

Luminous Intensity Polar Plot



TEST NUMBER: P1007610

CATALOG NUMBER: S123IP-B805UB35-4F0-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: P1007610

CATALOG NUMBER: S123IP-B805UB35-4F0-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°	2.1	0.1
90°-100°	62.8	2.3
100°-110°	190.2	7.0
110°-120°	323.8	12.0
120°-130°	426.0	15.7
130°-140°	478.8	17.7
140°-150°	470.7	17.4
150°-160°	396.3	14.6
160°-170°	263.8	9.7
170°-180°	92.4	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	576.9	21.3
90°-150°	1952.4	72.1
90°-180°	2705.0	99.9
0°-180°	2707.0	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°	1	8	18	22	23	3
95°	45	51	57	60	60	50
105°	172	174	181	181	182	185
115°	326	328	327	328	327	323
125°	477	479	478	475	472	425
135°	619	624	623	620	618	477
145°	751	752	755	754	751	469
155°	860	860	860	864	858	396
165°	936	934	934	939	933	264
175°	974	971	971	976	970	93
180°	976	976	976	976	976	

TEST NUMBER: P1007610

CATALOG NUMBER: S123IP-B805UB35-4F0-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°	0.8	8.4	18.4	21.5	23.0
92.5°	23.0	27.6	32.2	34.5	33.0
95°	45.2	50.6	56.7	59.8	59.8
97.5°	74.4	78.2	82.8	86.7	85.9
100°	104.3	108.9	112.7	115.0	116.6
102.5°	138.8	141.1	146.5	148.8	148.0
105°	172.5	174.1	181.0	181.0	182.5
107.5°	212.4	213.2	216.3	218.6	217.8
110°	249.2	250.8	252.3	255.4	253.8

TEST NUMBER: P1007610

CATALOG NUMBER: S123IP-B805UB35-4F0-XX-W2A-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.6	288.3	288.3	292.2	292.2
115°	325.9	328.2	326.7	327.5	326.7
117.5°	365.0	365.8	364.3	364.3	362.0
120°	401.1	405.7	401.8	401.1	399.5
122.5°	438.6	441.7	440.2	437.9	435.6
125°	477.0	479.3	477.8	474.7	471.6
127.5°	512.3	516.9	515.3	510.7	507.7
130°	547.5	553.7	551.4	548.3	542.9
132.5°	582.8	589.0	587.4	583.6	579.8
135°	618.9	623.5	622.7	619.6	618.1
137.5°	651.8	655.7	658.0	654.1	651.8
140°	686.3	690.2	690.9	690.2	684.8
142.5°	717.8	721.6	723.2	722.4	718.6
145°	750.8	752.3	754.6	753.8	750.8
147.5°	779.1	782.2	784.5	784.5	779.9
150°	809.0	810.6	812.1	812.1	807.5
152.5°	833.6	835.9	836.7	838.2	834.4
155°	859.7	859.7	860.4	863.5	858.1
157.5°	881.9	881.1	881.9	885.0	880.4
160°	902.6	901.1	901.1	904.9	901.8
162.5°	921.0	918.7	919.5	923.3	917.9
165°	936.3	934.0	934.0	938.6	933.3
167.5°	949.4	946.3	947.1	951.7	947.1
170°	960.1	957.1	957.1	962.4	957.1
172.5°	968.6	965.5	965.5	970.1	964.7
175°	973.9	970.9	970.9	975.5	970.1
177.5°	977.0	973.9	973.9	978.5	973.2
180°	976.2	976.2	976.2	976.2	976.2

(END OF REPORT)