

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: P1007700

Luminaire Tested: S124IP-B365UB35-4F0-XX-W2A-1

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B365UB35-4F0-XX-W2A-1
Description: Define 4 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

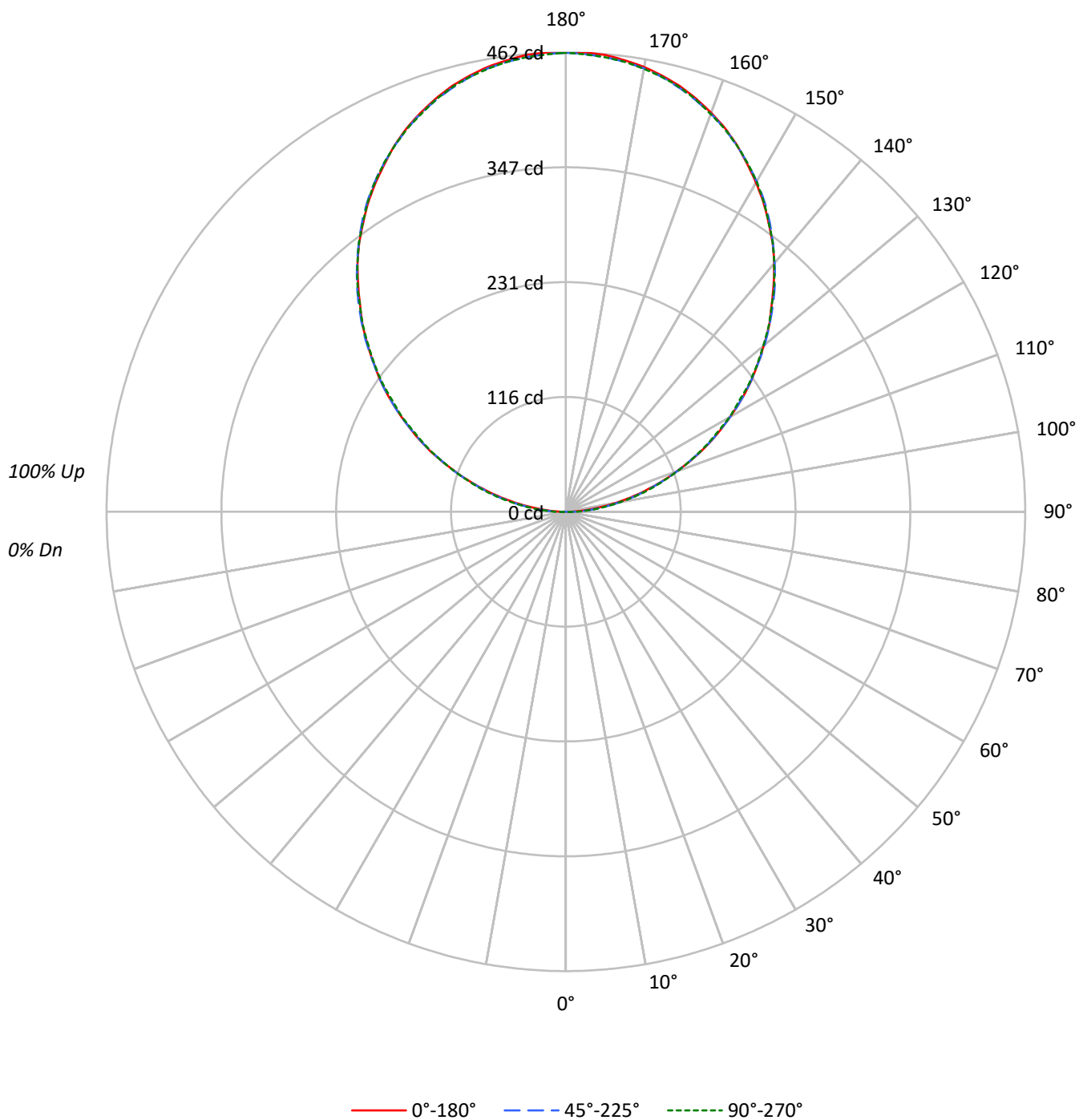
Lumens per Lamp: N/A
Luminaire Lumens: 1282.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
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

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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	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

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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°	1.0	0.1
90°-100°	30.1	2.3
100°-110°	90.1	7.0
110°-120°	153.1	11.9
120°-130°	201.9	15.8
130°-140°	226.8	17.7
140°-150°	222.9	17.4
150°-160°	187.5	14.6
160°-170°	124.8	9.7
170°-180°	43.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.1
90°-120°	273.3	21.3
90°-150°	925.1	72.2
90°-180°	1281.0	99.9
0°-180°	1282.0	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	5	8	10	11	2
95°	21	25	27	28	28	23
105°	83	84	85	86	87	88
115°	156	156	155	155	154	154
125°	227	227	226	226	225	202
135°	292	295	295	294	293	226
145°	355	357	357	357	356	222
155°	407	407	407	408	407	187
165°	443	442	441	444	442	125
175°	461	459	459	461	459	44
180°	462	462	462	462	462	



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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°	1.1	5.0	7.9	10.0	10.7
92.5°	9.3	13.9	15.7	16.8	17.1
95°	21.4	24.6	27.1	28.2	28.2
97.5°	34.3	37.1	40.0	41.4	41.4
100°	50.0	51.4	54.6	55.3	55.3
102.5°	66.4	66.8	69.6	70.7	71.1
105°	83.2	83.6	85.0	86.1	87.1
107.5°	100.7	101.0	101.4	102.8	102.5
110°	118.5	119.3	118.9	118.2	119.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.1	137.1	136.4	136.4	136.4
115°	155.7	155.7	155.0	154.6	154.3
117.5°	173.2	173.2	172.8	171.7	170.7
120°	190.7	192.1	191.0	189.2	190.0
122.5°	208.9	209.2	208.9	207.8	206.0
125°	226.7	226.7	226.4	225.7	225.0
127.5°	242.8	243.9	243.2	242.4	242.1
130°	259.9	261.0	261.0	260.3	258.9
132.5°	277.4	278.2	277.8	277.1	276.7
135°	292.4	294.6	294.6	293.9	292.8
137.5°	309.2	310.3	311.0	309.9	310.3
140°	326.0	326.7	326.7	326.4	326.0
142.5°	341.4	342.1	341.7	341.7	341.7
145°	355.3	356.7	357.1	356.7	355.6
147.5°	369.6	371.3	371.0	370.6	370.3
150°	382.4	383.8	383.8	383.8	383.5
152.5°	394.6	395.3	395.6	396.7	395.6
155°	407.1	407.1	406.7	408.1	406.7
157.5°	417.8	417.1	417.1	418.1	417.1
160°	427.1	426.7	426.3	427.4	425.6
162.5°	435.6	434.6	434.2	436.3	434.6
165°	443.1	442.0	441.3	443.5	442.0
167.5°	449.2	447.8	447.8	449.9	447.8
170°	454.2	452.4	452.8	454.9	452.4
172.5°	457.8	456.3	456.3	458.8	456.3
175°	461.0	459.2	458.8	461.3	458.8
177.5°	462.4	460.6	460.6	463.1	460.3
180°	461.7	461.7	461.7	461.7	461.7

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