

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: P1007675

Luminaire Tested: S124IP-B1205UB40-4F0-XX-W2A

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124IP-B1205UB40-4F0-XX-W2A
Description: Define 4 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

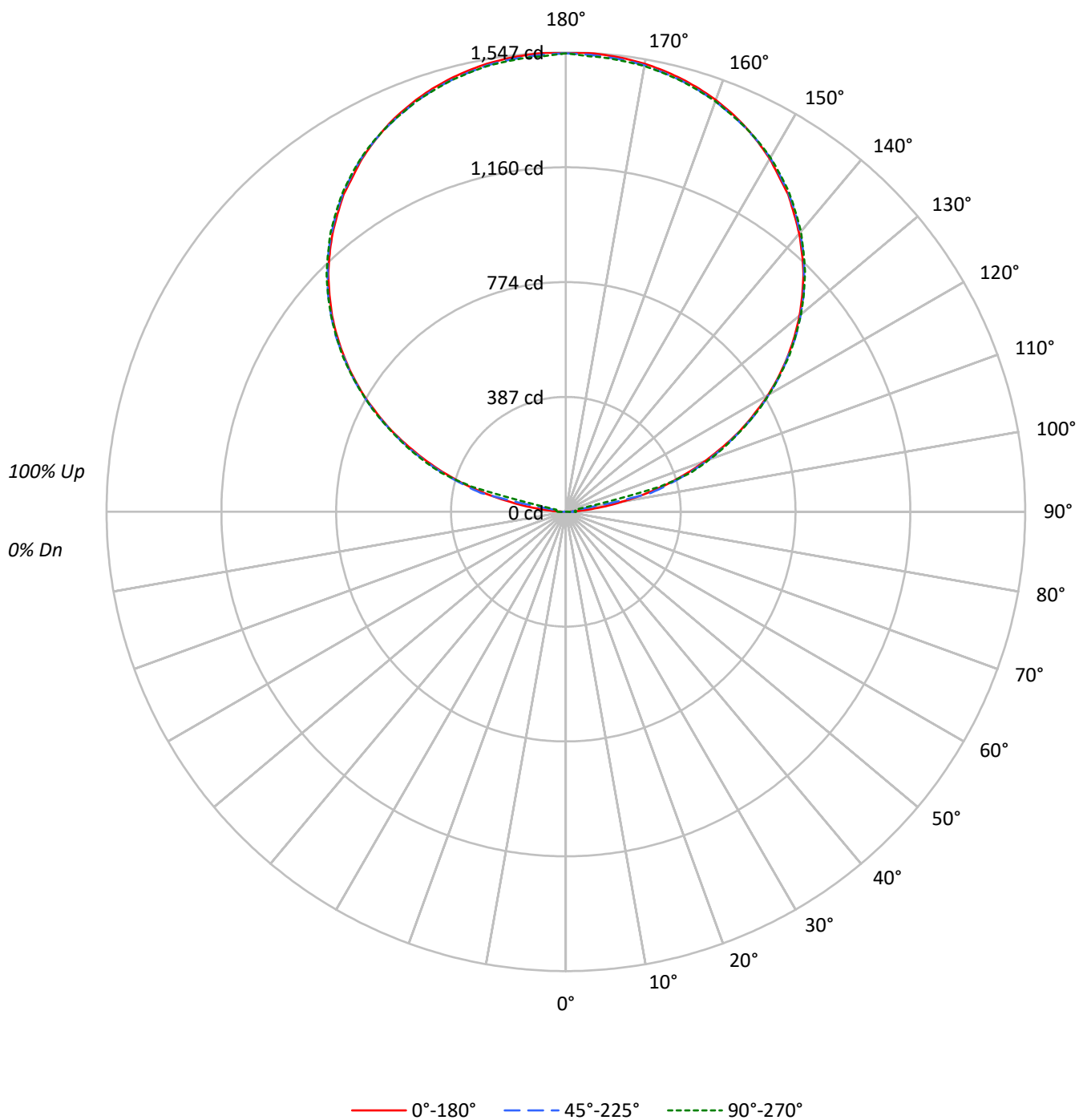
Lumens per Lamp: N/A
Luminaire Lumens: 4780.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
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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CATALOG NUMBER: S124IP-B120SUB40-4F0-XX-W2A

Luminous Intensity Polar Plot



TEST NUMBER: P1007675

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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°	3.2	0.1
90°-100°	51.2	1.1
100°-110°	337.5	7.1
110°-120°	644.4	13.5
120°-130°	818.1	17.1
130°-140°	875.1	18.3
140°-150°	818.3	17.1
150°-160°	659.9	13.8
160°-170°	425.6	8.9
170°-180°	146.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	1033.1	21.6
90°-150°	3544.6	74.2
90°-180°	4777.0	99.9
0°-180°	4780.0	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°	4	16	25	32	35	3
95°	64	24	25	32	34	78
105°	348	354	360	371	329	364
115°	649	652	651	654	654	639
125°	912	917	914	918	919	815
135°	1132	1130	1135	1137	1140	872
145°	1305	1308	1308	1309	1312	815
155°	1431	1432	1428	1433	1429	660
165°	1509	1503	1503	1512	1502	426
175°	1544	1537	1538	1548	1534	147
180°	1544	1544	1544	1544	1544	

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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°	3.5	16.2	25.4	32.3	34.6
92.5°	17.3	15.0	24.2	31.2	31.2
95°	63.5	24.2	25.4	32.3	33.5
97.5°	121.2	146.6	25.4	31.2	32.3
100°	189.4	210.1	50.8	31.2	32.3
102.5°	265.6	279.4	293.3	33.5	33.5
105°	347.5	354.5	360.2	370.6	329.1
107.5°	422.6	426.1	434.1	439.9	444.5
110°	498.8	502.3	509.2	511.5	515.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	572.7	579.6	581.9	580.8	585.4
115°	648.9	652.4	651.2	653.5	653.5
117.5°	717.0	721.6	725.1	723.9	723.9
120°	786.3	790.9	789.8	792.1	789.8
122.5°	851.0	853.3	855.6	856.7	854.4
125°	912.1	916.8	914.5	917.9	919.1
127.5°	971.0	972.2	978.0	976.8	975.6
130°	1027.6	1028.8	1032.2	1033.4	1033.4
132.5°	1079.6	1081.9	1086.5	1087.6	1086.5
135°	1131.5	1130.4	1135.0	1137.3	1139.6
137.5°	1177.7	1177.7	1183.5	1185.8	1184.6
140°	1222.7	1225.0	1227.4	1230.8	1232.0
142.5°	1263.1	1267.8	1268.9	1271.2	1271.2
145°	1304.7	1308.2	1308.2	1309.3	1311.6
147.5°	1337.0	1344.0	1342.8	1344.0	1345.1
150°	1372.8	1377.5	1376.3	1376.3	1377.5
152.5°	1402.9	1406.3	1404.0	1406.3	1405.2
155°	1430.6	1431.7	1428.3	1432.9	1429.4
157.5°	1454.8	1454.8	1450.2	1456.0	1450.2
160°	1475.6	1472.1	1471.0	1477.9	1471.0
162.5°	1494.1	1489.5	1488.3	1495.2	1487.1
165°	1509.1	1503.3	1503.3	1512.5	1502.2
167.5°	1521.8	1516.0	1514.9	1525.2	1513.7
170°	1532.2	1525.2	1526.4	1535.6	1524.1
172.5°	1539.1	1532.2	1533.3	1542.6	1529.9
175°	1543.7	1536.8	1537.9	1548.3	1534.5
177.5°	1547.2	1539.1	1541.4	1550.6	1536.8
180°	1543.7	1543.7	1543.7	1543.7	1543.7

(END OF REPORT)