

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: P1024820

Luminaire Tested: S124DIP-B1020D1035UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024820
REPORT IS A COMBINATION OF REPORTS P995150 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D1035UB30-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

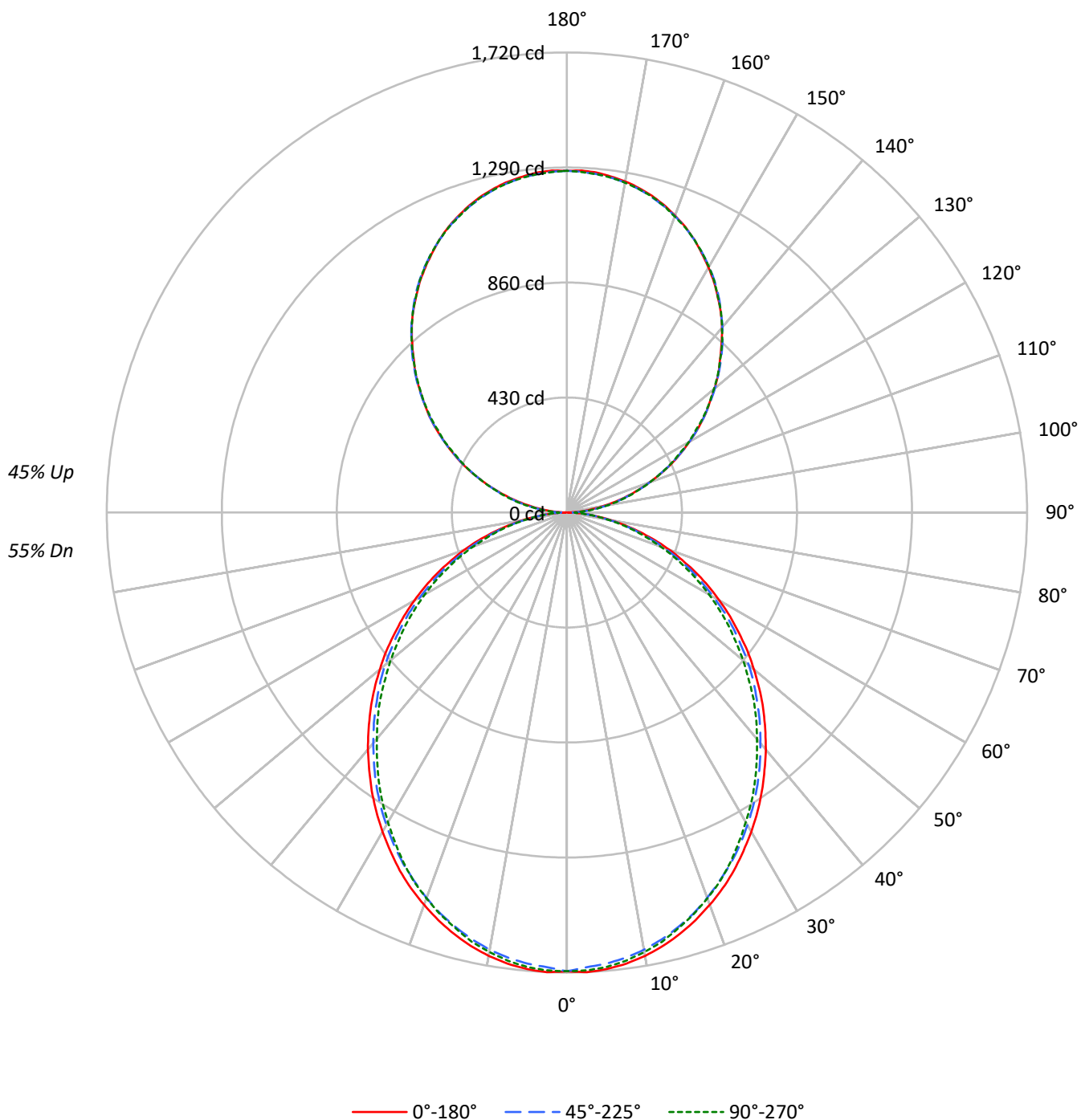
Lumens per Lamp: N/A
Luminaire Lumens: 7950.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	87	92	88	85	81	76	73	71	64	63	61	54	53	52
2	90	83	76	71	83	77	71	67	66	62	59	57	53	51	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	34	32
5	69	57	49	43	64	54	46	41	47	41	36	40	35	32	34	30	28
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	24
7	59	46	38	33	55	44	36	31	38	32	28	33	28	25	28	24	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	19
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13985	13985	13985
5°	13997	13583	13599
10°	13878	13206	13113
15°	13679	12758	12565
20°	13425	12272	11997
25°	13139	11760	11386
30°	12794	11206	10715
35°	12437	10639	10067
40°	12064	10029	9377
45°	11673	9416	8733
50°	11241	8824	8018
55°	10771	8130	7309
60°	10291	7371	6570
65°	9739	6587	5738
70°	9105	5643	4845
75°	8158	4550	3881
80°	6951	3290	2729
85°	5399	1832	1469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11673 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	2.0
10°-20°	455.4	5.7
20°-30°	670.3	8.4
30°-40°	779.1	9.8
40°-50°	779.0	9.8
50°-60°	681.4	8.6
60°-70°	505.9	6.4
70°-80°	287.0	3.6
80°-90°	84.9	1.1
90°-100°	83.3	1.0
100°-110°	249.5	3.1
110°-120°	423.8	5.3
120°-130°	558.9	7.0
130°-140°	627.7	7.9
140°-150°	617.0	7.8
150°-160°	518.9	6.5
160°-170°	345.3	4.3
170°-180°	120.9	1.5
0°-30°	1287.3	16.2
0°-40°	2066.5	26.0
0°-60°	3526.9	44.4
0°-90°	4404.7	55.4
90°-120°	756.6	9.5
90°-150°	2560.2	32.2
90°-180°	3545.0	44.6
0°-180°	7950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1714	1708	1693	1708	1705	163
15°	1631	1626	1605	1613	1609	460
25°	1477	1468	1448	1450	1444	680
35°	1271	1262	1242	1233	1226	795
45°	1038	1028	1006	991	987	800
55°	785	781	761	745	737	703
65°	532	525	511	498	491	526
75°	283	276	269	264	262	300
85°	74	74	72	72	70	80
90°	3	14	22	28	30	9
95°	59	68	75	78	78	64
105°	230	231	235	238	241	244
115°	431	431	429	428	427	425
125°	628	628	626	624	623	559
135°	809	815	815	813	810	626
145°	983	987	988	987	984	615
155°	1126	1126	1126	1130	1126	518
165°	1226	1223	1221	1227	1223	346
175°	1276	1271	1270	1277	1270	121
180°	1278	1278	1278	1278	1278	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.0	1715.0	1715.0	1715.0	1715.0
2.5°	1720.5	1716.4	1701.3	1715.0	1713.7
5°	1713.7	1708.2	1693.1	1708.2	1705.4
7.5°	1701.3	1695.8	1679.3	1691.7	1690.3
10°	1683.4	1677.9	1660.1	1671.1	1668.3
12.5°	1660.1	1654.6	1635.3	1647.7	1643.6
15°	1631.2	1625.7	1605.1	1613.4	1609.2
17.5°	1598.2	1591.4	1572.1	1577.6	1574.9
20°	1561.1	1554.3	1533.6	1537.8	1535.0
22.5°	1521.3	1511.7	1491.0	1499.3	1493.8
25°	1477.3	1467.7	1448.4	1449.8	1444.3
27.5°	1427.8	1418.2	1400.3	1397.6	1390.7
30°	1378.4	1367.4	1349.5	1344.0	1337.1
32.5°	1326.1	1316.5	1297.3	1290.4	1283.5
35°	1271.2	1261.5	1242.3	1232.7	1225.8
37.5°	1213.5	1205.2	1184.6	1175.0	1165.4
40°	1157.1	1146.1	1125.5	1111.8	1104.9
42.5°	1096.6	1091.1	1067.8	1051.3	1047.2
45°	1037.5	1027.9	1005.9	990.8	986.7
47.5°	975.7	968.8	948.2	931.7	920.7
50°	912.5	907.0	887.8	868.5	860.3
52.5°	850.7	843.8	823.2	806.7	795.7
55°	784.7	780.6	761.3	744.8	736.6
57.5°	722.8	718.7	699.5	683.0	674.7
60°	658.3	651.4	633.5	621.2	614.3
62.5°	595.0	589.5	570.3	559.3	552.4
65°	531.8	525.0	511.2	497.5	490.6
67.5°	467.2	461.7	448.0	434.3	432.9
70°	408.1	398.5	387.5	376.5	372.4
72.5°	344.9	335.3	327.1	318.8	314.7
75°	283.1	276.2	269.4	263.9	262.5
77.5°	222.6	219.9	213.0	211.6	207.5
80°	169.0	164.9	162.2	159.4	158.0
82.5°	116.8	115.4	115.4	114.1	112.7
85°	74.2	74.2	71.5	71.5	70.1
87.5°	35.7	34.4	33.0	33.0	33.0
90°	3.0	13.8	21.7	27.7	29.6
92.5°	25.7	38.5	43.5	46.4	47.4
95°	59.3	68.2	75.1	78.1	78.1
97.5°	94.9	102.8	110.7	114.6	114.6
100°	138.3	142.3	151.2	153.2	153.2
102.5°	183.8	184.8	192.7	195.7	196.7
105°	230.3	231.2	235.2	238.2	241.1
107.5°	278.7	279.7	280.6	284.6	283.6
110°	328.1	330.1	329.1	327.1	330.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	379.5	379.5	377.5	377.5	377.5
115°	430.9	430.9	428.9	427.9	426.9
117.5°	479.3	479.3	478.3	475.3	472.4
120°	527.7	531.7	528.7	523.7	525.7
122.5°	578.1	579.1	578.1	575.1	570.2
125°	627.5	627.5	626.5	624.5	622.6
127.5°	672.0	674.9	673.0	671.0	670.0
130°	719.4	722.4	722.4	720.4	716.4
132.5°	767.8	769.8	768.8	766.8	765.9
135°	809.3	815.3	815.3	813.3	810.3
137.5°	855.8	858.7	860.7	857.8	858.7
140°	902.2	904.2	904.2	903.2	902.2
142.5°	944.7	946.7	945.7	945.7	945.7
145°	983.3	987.2	988.2	987.2	984.2
147.5°	1022.8	1027.7	1026.7	1025.8	1024.8
150°	1058.4	1062.3	1062.3	1062.3	1061.3
152.5°	1092.0	1093.9	1094.9	1097.9	1094.9
155°	1126.5	1126.5	1125.6	1129.5	1125.6
157.5°	1156.2	1154.2	1154.2	1157.2	1154.2
160°	1181.9	1180.9	1179.9	1182.9	1177.9
162.5°	1205.6	1202.6	1201.7	1207.6	1202.6
165°	1226.4	1223.4	1221.4	1227.3	1223.4
167.5°	1243.2	1239.2	1239.2	1245.1	1239.2
170°	1257.0	1252.1	1253.0	1259.0	1252.1
172.5°	1266.9	1262.9	1262.9	1269.8	1262.9
175°	1275.8	1270.8	1269.8	1276.8	1269.8
177.5°	1279.7	1274.8	1274.8	1281.7	1273.8
180°	1277.7	1277.7	1277.7	1277.7	1277.7

(END OF REPORT)