

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: P1025950

Luminaire Tested: S124RDIP-B1020D1035UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025950
REPORT IS A COMBINATION OF REPORTS P998850 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B1020D1035UB40-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

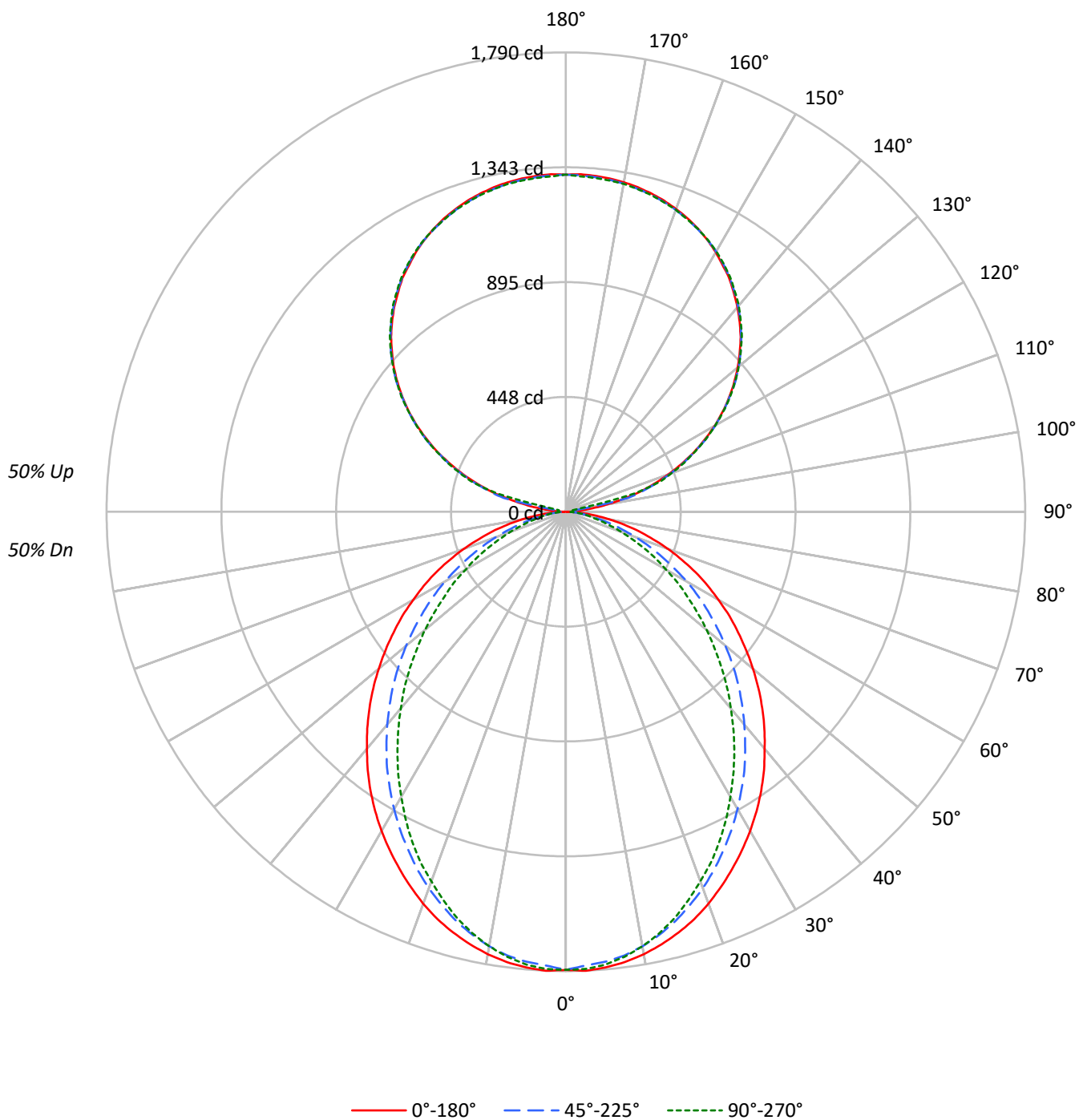
Lumens per Lamp: N/A
Luminaire Lumens: 8192.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56
1	98	94	90	87	90	87	84	81	74	71	69	62	60	58	50	49	48
2	90	82	76	71	82	76	71	67	65	61	58	54	52	49	45	43	41
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31
5	69	57	49	44	63	53	46	41	46	40	36	39	35	31	32	29	27
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	21	19
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14554	14554	14554
5°	14556	14122	14123
10°	14432	13676	13513
15°	14233	13122	12794
20°	13973	12489	11974
25°	13649	11806	11172
30°	13332	11110	10273
35°	12983	10404	9394
40°	12568	9645	8490
45°	12178	8891	7595
50°	11734	8068	6687
55°	11256	7225	5749
60°	10724	6328	4824
65°	10212	5301	3932
70°	9482	4219	3005
75°	8547	3070	2101
80°	7140	1884	1511
85°	5370	1086	830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	2.0
10°-20°	467.9	5.7
20°-30°	675.6	8.2
30°-40°	765.7	9.3
40°-50°	739.3	9.0
50°-60°	614.6	7.5
60°-70°	424.2	5.2
70°-80°	214.4	2.6
80°-90°	57.1	0.7
90°-100°	43.6	0.5
100°-110°	287.2	3.5
110°-120°	548.4	6.7
120°-130°	696.2	8.5
130°-140°	744.8	9.1
140°-150°	696.4	8.5
150°-160°	561.6	6.9
160°-170°	362.2	4.4
170°-180°	124.8	1.5
0°-30°	1311.4	16.0
0°-40°	2077.1	25.4
0°-60°	3431.0	41.9
0°-90°	4126.7	50.4
90°-120°	879.2	10.7
90°-150°	3016.6	36.8
90°-180°	4065.0	49.6
0°-180°	8192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1782	1777	1760	1774	1771	169
15°	1697	1685	1651	1648	1639	478
25°	1535	1510	1454	1431	1417	707
35°	1327	1283	1215	1168	1144	829
45°	1082	1032	950	883	858	835
55°	820	765	676	605	579	734
65°	558	499	411	353	336	551
75°	297	246	182	150	142	313
85°	74	46	42	40	40	81
90°	3	14	22	28	30	7
95°	54	21	22	28	28	67
105°	296	302	307	315	280	310
115°	552	555	554	556	556	544
125°	776	780	778	781	782	693
135°	963	962	966	968	970	742
145°	1110	1113	1113	1114	1116	694
155°	1218	1218	1216	1219	1216	561
165°	1284	1279	1279	1287	1278	363
175°	1314	1308	1309	1318	1306	125
180°	1314	1314	1314	1314	1314	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.8	1784.8	1784.8	1784.8	1784.8
2.5°	1790.3	1784.8	1769.8	1784.8	1783.4
5°	1782.1	1776.6	1760.2	1773.9	1771.1
7.5°	1769.8	1764.3	1743.8	1753.4	1749.3
10°	1750.6	1743.8	1719.2	1724.7	1719.2
12.5°	1726.0	1717.8	1687.8	1690.5	1682.3
15°	1697.3	1685.0	1650.9	1648.2	1638.6
17.5°	1664.5	1646.8	1607.2	1600.3	1586.7
20°	1624.9	1607.2	1560.7	1549.8	1532.0
22.5°	1581.2	1560.7	1510.1	1492.4	1478.7
25°	1534.7	1510.1	1454.1	1430.9	1417.2
27.5°	1486.9	1456.8	1398.1	1370.7	1351.6
30°	1436.3	1402.2	1337.9	1303.8	1281.9
32.5°	1383.0	1343.4	1276.4	1235.4	1214.9
35°	1327.0	1283.3	1214.9	1168.5	1143.9
37.5°	1268.2	1223.1	1148.0	1097.4	1072.8
40°	1205.4	1160.3	1082.4	1025.0	1000.4
42.5°	1145.2	1097.4	1015.4	956.6	930.7
45°	1082.4	1031.8	949.8	882.8	858.2
47.5°	1018.1	966.2	881.5	811.8	784.4
50°	952.5	899.2	811.8	743.4	717.5
52.5°	885.6	833.6	743.4	673.7	646.4
55°	820.0	765.3	676.5	605.4	579.4
57.5°	755.7	698.3	610.9	538.5	519.3
60°	686.0	631.4	543.9	472.9	451.0
62.5°	623.2	565.8	475.6	411.4	395.0
65°	557.6	498.8	411.4	352.6	336.2
67.5°	489.3	433.2	351.2	299.3	280.2
70°	425.0	367.6	289.7	244.6	231.0
72.5°	356.7	306.1	233.7	196.8	184.5
75°	296.6	246.0	181.8	150.3	142.1
77.5°	233.7	190.0	135.3	113.4	110.7
80°	173.6	133.9	92.9	88.8	87.5
82.5°	121.6	86.1	67.0	64.2	62.9
85°	73.8	46.5	42.4	39.6	39.6
87.5°	31.4	20.5	19.1	17.8	19.1
90°	2.9	13.8	21.6	27.5	29.5
92.5°	14.7	12.8	20.6	26.5	26.5
95°	54.0	20.6	21.6	27.5	28.5
97.5°	103.2	124.8	21.6	26.5	27.5
100°	161.2	178.8	43.2	26.5	27.5
102.5°	226.0	237.8	249.6	28.5	28.5
105°	295.8	301.7	306.6	315.4	280.0
107.5°	359.6	362.6	369.5	374.4	378.3
110°	424.5	427.4	433.3	435.3	438.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	487.4	493.3	495.2	494.3	498.2
115°	552.2	555.2	554.2	556.2	556.2
117.5°	610.2	614.1	617.1	616.1	616.1
120°	669.2	673.1	672.1	674.1	672.1
122.5°	724.2	726.2	728.1	729.1	727.1
125°	776.3	780.2	778.2	781.2	782.2
127.5°	826.4	827.4	832.3	831.3	830.3
130°	874.5	875.5	878.5	879.5	879.5
132.5°	918.8	920.7	924.7	925.6	924.7
135°	963.0	962.0	965.9	967.9	969.9
137.5°	1002.3	1002.3	1007.2	1009.2	1008.2
140°	1040.6	1042.6	1044.5	1047.5	1048.5
142.5°	1075.0	1078.9	1079.9	1081.9	1081.9
145°	1110.4	1113.3	1113.3	1114.3	1116.3
147.5°	1137.9	1143.8	1142.8	1143.8	1144.8
150°	1168.3	1172.3	1171.3	1171.3	1172.3
152.5°	1193.9	1196.8	1194.9	1196.8	1195.9
155°	1217.5	1218.5	1215.5	1219.4	1216.5
157.5°	1238.1	1238.1	1234.2	1239.1	1234.2
160°	1255.8	1252.9	1251.9	1257.8	1251.9
162.5°	1271.5	1267.6	1266.6	1272.5	1265.6
165°	1284.3	1279.4	1279.4	1287.2	1278.4
167.5°	1295.1	1290.2	1289.2	1298.1	1288.2
170°	1303.9	1298.1	1299.0	1306.9	1297.1
172.5°	1309.8	1303.9	1304.9	1312.8	1302.0
175°	1313.8	1307.9	1308.9	1317.7	1305.9
177.5°	1316.7	1309.8	1311.8	1319.7	1307.9
180°	1313.8	1313.8	1313.8	1313.8	1313.8

(END OF REPORT)