

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: P1012143

Luminaire Tested: S123RDIP-B1000D1025UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012143
REPORT IS A COMBINATION OF REPORTS P992758 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1025UB50-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

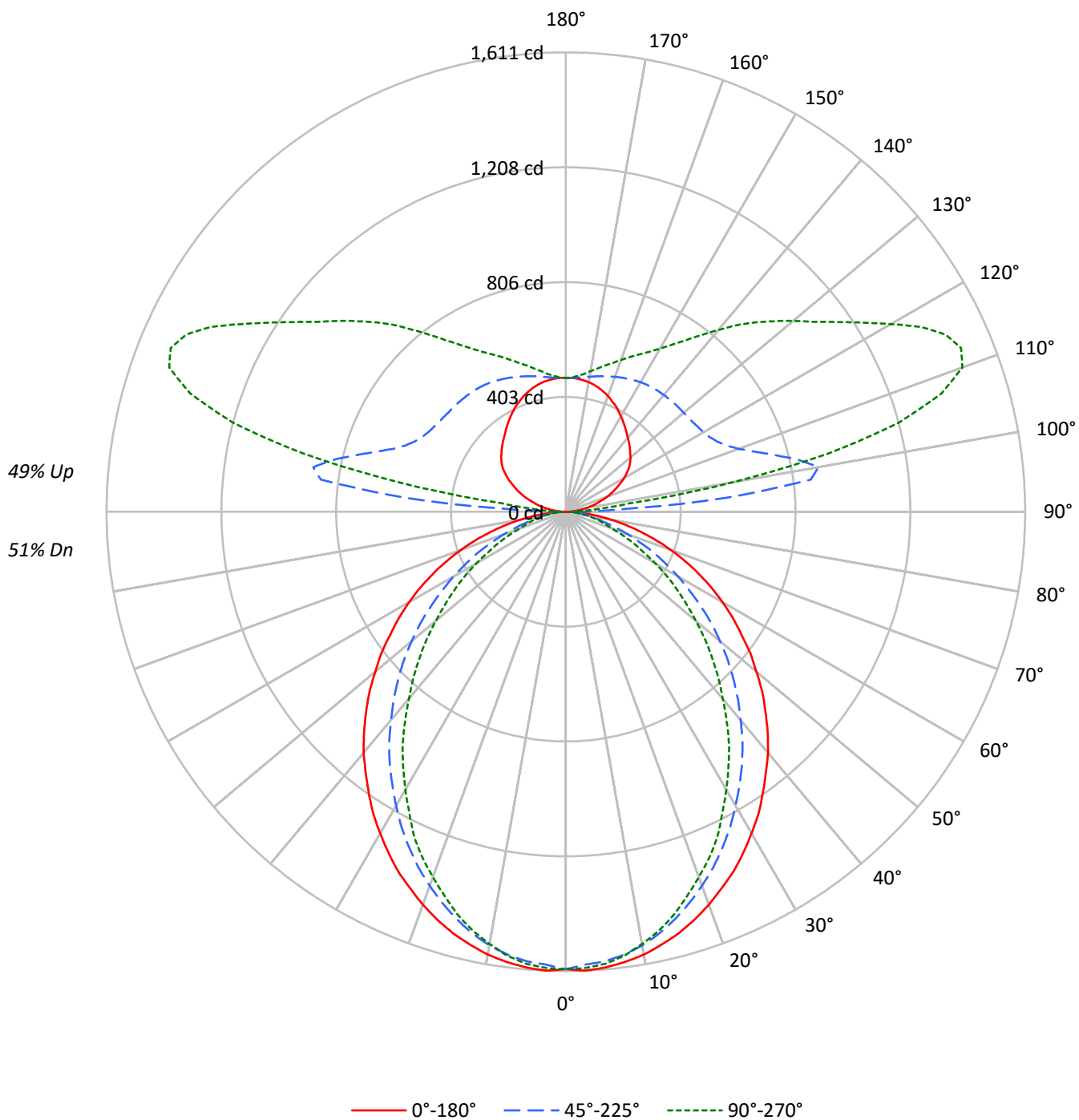
Lumens per Lamp: N/A
Luminaire Lumens: 7165.2 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	70	70	70	57	57	57
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49
2	90	83	77	72	83	76	71	67	65	61	58	55	52	49	45	43	41
3	82	73	66	60	76	68	61	56	58	53	49	49	45	42	40	38	36
4	75	65	57	51	69	60	53	48	51	46	42	43	40	36	36	33	31
5	69	58	50	44	64	54	47	41	46	41	37	39	35	32	33	30	27
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19
9	51	39	32	27	47	37	30	25	32	26	23	27	23	20	23	20	17
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17266	17266	17266
5°	17295	16656	16611
10°	17159	16030	15714
15°	16936	15255	14731
20°	16643	14414	13633
25°	16343	13539	12593
30°	15956	12608	11363
35°	15558	11694	10244
40°	15183	10701	9006
45°	14704	9730	7894
50°	14175	8694	6743
55°	13626	7584	5687
60°	13101	6446	4616
65°	12423	5280	3603
70°	11570	3992	2574
75°	10343	2703	2040
80°	8827	1880	1432
85°	6628	1014	749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.1
10°-20°	419.5	5.9
20°-30°	604.0	8.4
30°-40°	680.2	9.5
40°-50°	650.6	9.1
50°-60°	532.6	7.4
60°-70°	359.1	5.0
70°-80°	180.1	2.5
80°-90°	49.7	0.7
90°-100°	266.7	3.7
100°-110°	745.5	10.4
110°-120°	726.9	10.1
120°-130°	578.8	8.1
130°-140°	456.9	6.4
140°-150°	340.9	4.8
150°-160°	237.8	3.3
160°-170°	139.7	1.9
170°-180°	45.4	0.6
0°-30°	1174.3	16.4
0°-40°	1854.5	25.9
0°-60°	3037.7	42.4
0°-90°	3626.6	50.6
90°-120°	1739.1	24.3
90°-150°	3115.7	43.5
90°-180°	3539.0	49.4
0°-180°	7165.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1582	1594	1591	152
15°	1530	1516	1479	1473	1464	431
25°	1392	1360	1300	1272	1258	640
35°	1205	1158	1077	1021	998	754
45°	990	932	831	757	726	764
55°	752	688	578	502	476	674
65°	514	442	341	277	263	509
75°	272	210	138	125	122	290
85°	69	40	36	34	34	76
90°	2	11	24	27	28	7
95°	32	105	563	164	110	34
105°	110	163	764	1336	1208	117
115°	195	243	584	1281	1470	193
125°	271	320	545	988	1159	241
135°	317	379	538	814	940	245
145°	362	415	531	667	734	227
155°	411	444	514	584	609	189
165°	449	462	492	522	531	127
175°	468	469	472	479	478	44
180°	469	469	469	469	469	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1610.6	1605.4	1589.8	1604.1	1601.5
5°	1604.1	1597.6	1582.0	1593.7	1591.1
7.5°	1592.4	1585.9	1566.4	1574.2	1570.3
10°	1576.8	1567.7	1544.3	1545.6	1539.1
12.5°	1554.7	1544.3	1514.4	1513.1	1505.2
15°	1530.0	1515.7	1479.2	1472.7	1463.6
17.5°	1500.0	1484.4	1438.9	1425.9	1412.9
20°	1466.2	1445.4	1396.0	1379.1	1363.4
22.5°	1428.5	1403.8	1350.4	1328.3	1314.0
25°	1392.1	1359.5	1299.7	1272.4	1258.1
27.5°	1347.8	1312.7	1247.7	1211.2	1189.1
30°	1302.3	1263.3	1190.4	1146.2	1125.4
32.5°	1256.8	1211.2	1133.2	1083.7	1061.6
35°	1204.7	1157.9	1077.2	1021.3	997.9
37.5°	1152.7	1101.9	1017.4	954.9	926.3
40°	1103.2	1046.0	953.6	886.0	856.1
42.5°	1047.3	990.1	893.8	818.3	792.3
45°	990.1	931.5	831.3	757.2	726.0
47.5°	934.1	869.1	770.2	689.5	662.2
50°	871.7	810.5	705.1	624.5	594.6
52.5°	815.7	748.1	644.0	559.4	533.4
55°	752.0	688.2	577.6	502.2	476.2
57.5°	694.7	625.8	513.9	442.3	420.2
60°	634.9	563.3	455.3	385.1	363.0
62.5°	575.0	503.5	395.5	330.5	307.0
65°	513.9	442.3	340.9	277.1	262.8
67.5°	452.7	379.9	281.0	232.9	217.3
70°	392.9	322.6	231.6	186.0	171.7
72.5°	333.1	264.1	183.4	148.3	144.4
75°	271.9	209.5	137.9	124.9	122.3
77.5°	216.0	158.7	108.0	100.2	97.6
80°	162.6	109.3	82.0	78.1	75.5
82.5°	111.9	67.7	58.5	54.6	54.6
85°	69.0	40.3	36.4	33.8	33.8
87.5°	31.2	16.9	16.9	15.6	14.3
90°	1.9	11.4	23.8	26.6	27.6
92.5°	14.3	57.0	176.7	60.4	50.4
95°	32.3	105.0	563.4	164.4	110.2
97.5°	51.3	120.2	866.5	413.2	226.1
100°	70.3	132.6	899.7	864.6	595.7
102.5°	90.3	146.8	838.0	1157.6	943.4
105°	110.2	163.0	763.9	1335.8	1208.5
107.5°	131.1	182.0	698.3	1414.2	1381.4
110°	153.9	201.4	644.2	1416.6	1480.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	221.8	608.0	1362.9	1500.2
115°	194.8	242.8	584.3	1281.2	1469.8
117.5°	214.7	262.7	568.1	1193.8	1403.3
120°	235.6	282.6	557.7	1111.1	1315.9
122.5°	253.7	301.6	551.0	1046.0	1234.1
125°	270.8	319.7	545.3	988.1	1159.1
127.5°	284.1	336.8	542.5	940.6	1094.5
130°	296.4	352.0	539.6	896.9	1041.3
132.5°	305.9	365.8	538.7	856.0	989.0
135°	317.3	378.6	537.7	813.8	939.6
137.5°	327.8	389.0	535.8	773.8	887.4
140°	338.2	398.5	534.9	734.9	832.3
142.5°	349.6	407.1	533.0	699.3	781.0
145°	362.0	414.7	531.1	667.4	734.4
147.5°	374.3	422.8	528.2	642.8	694.5
150°	386.7	429.4	524.4	620.8	660.3
152.5°	399.0	436.6	519.7	601.8	631.8
155°	411.4	443.6	514.0	584.3	609.0
157.5°	420.9	449.8	509.2	567.2	587.1
160°	432.3	455.0	503.5	551.5	566.2
162.5°	440.8	458.9	497.8	536.8	547.2
165°	449.4	462.2	492.1	522.0	531.1
167.5°	456.0	465.0	486.4	509.2	514.9
170°	461.7	466.4	480.7	497.8	500.7
172.5°	465.5	467.9	476.0	487.8	487.4
175°	468.4	468.8	472.2	478.8	477.9
177.5°	470.3	469.3	469.3	473.1	471.2
180°	469.3	469.3	469.3	469.3	469.3

(END OF REPORT)