

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: P1012202

Luminaire Tested: S123RDIP-B1000D365UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012202
REPORT IS A COMBINATION OF REPORTS P992837 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D365UB50-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

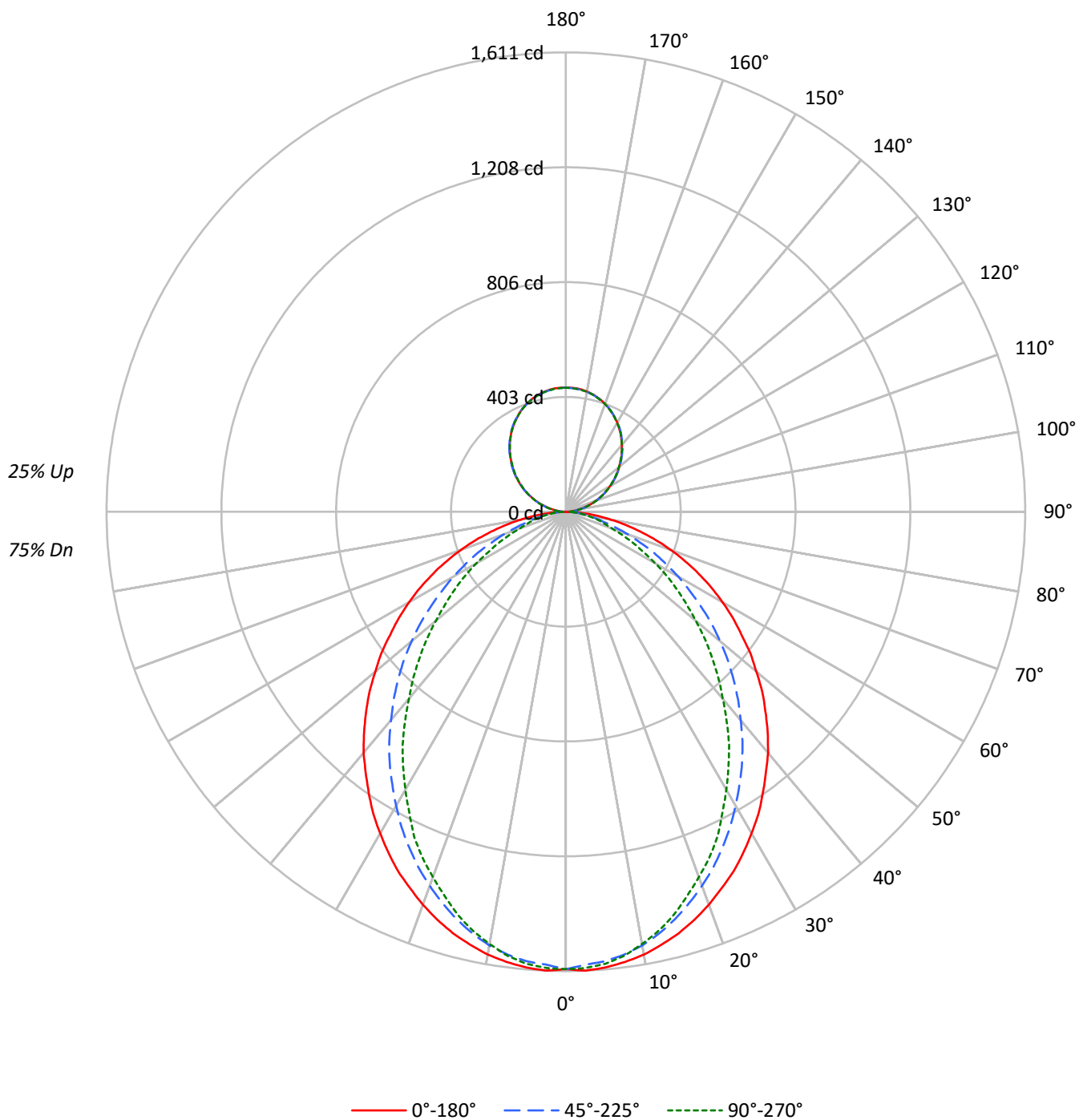
Lumens per Lamp: N/A
Luminaire Lumens: 4831.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79
1	104	100	96	92	99	95	92	88	86	84	81	78	76	74	71	69	68
2	95	88	81	76	90	84	78	73	76	72	68	69	66	63	63	60	58
3	87	77	70	64	83	74	67	62	68	62	58	62	57	54	56	53	50
4	80	69	61	55	76	66	59	53	60	54	50	55	50	47	50	47	43
5	74	62	54	47	70	59	52	46	54	48	43	50	45	41	46	41	38
6	68	56	48	42	65	54	46	40	49	43	38	45	40	36	42	37	34
7	63	51	43	37	60	49	41	36	45	39	34	41	36	32	38	34	30
8	59	46	38	33	56	45	37	32	41	35	30	38	33	29	35	31	27
9	55	42	35	30	52	41	34	29	38	32	27	35	30	26	33	28	25
10	52	39	32	27	49	38	31	26	35	29	25	33	27	24	30	26	23

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	3.1
10°-20°	419.5	8.7
20°-30°	604.0	12.5
30°-40°	680.2	14.1
40°-50°	650.6	13.5
50°-60°	532.6	11.0
60°-70°	359.1	7.4
70°-80°	180.1	3.7
80°-90°	48.0	1.0
90°-100°	28.0	0.6
100°-110°	84.8	1.8
110°-120°	144.4	3.0
120°-130°	189.9	3.9
130°-140°	213.5	4.4
140°-150°	209.9	4.3
150°-160°	176.7	3.7
160°-170°	117.6	2.4
170°-180°	41.2	0.9
0°-30°	1174.3	24.3
0°-40°	1854.5	38.4
0°-60°	3037.7	62.9
0°-90°	3624.9	75.0
90°-120°	257.2	5.3
90°-150°	870.6	18.0
90°-180°	1206.0	25.0
0°-180°	4831.0	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°	0	4	8	10	10	6
95°	20	23	25	27	27	22
105°	77	78	81	81	81	82
115°	145	146	146	146	146	144
125°	213	214	213	212	210	190
135°	276	278	278	276	276	213
145°	335	335	336	336	335	209
155°	383	383	384	385	383	176
165°	418	416	416	418	416	118
175°	434	433	433	435	432	41
180°	435	435	435	435	435	

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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°	0.3	3.8	8.2	9.6	10.3
92.5°	10.3	12.3	14.4	15.4	14.7
95°	20.2	22.6	25.3	26.7	26.7
97.5°	33.2	34.9	36.9	38.6	38.3
100°	46.5	48.6	50.3	51.3	52.0
102.5°	61.9	62.9	65.3	66.3	66.0
105°	76.9	77.6	80.7	80.7	81.4
107.5°	94.7	95.1	96.4	97.5	97.1
110°	111.1	111.8	112.5	113.9	113.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	128.2	128.6	128.6	130.3	130.3
115°	145.3	146.3	145.7	146.0	145.7
117.5°	162.8	163.1	162.4	162.4	161.4
120°	178.8	180.9	179.2	178.8	178.1
122.5°	195.6	197.0	196.3	195.2	194.2
125°	212.7	213.7	213.0	211.7	210.3
127.5°	228.4	230.5	229.8	227.7	226.4
130°	244.1	246.9	245.8	244.5	242.1
132.5°	259.9	262.6	261.9	260.2	258.5
135°	275.9	278.0	277.6	276.3	275.6
137.5°	290.6	292.4	293.4	291.7	290.6
140°	306.0	307.7	308.1	307.7	305.3
142.5°	320.0	321.8	322.4	322.1	320.4
145°	334.8	335.4	336.5	336.1	334.8
147.5°	347.4	348.8	349.8	349.8	347.7
150°	360.7	361.4	362.1	362.1	360.1
152.5°	371.7	372.7	373.0	373.7	372.0
155°	383.3	383.3	383.6	385.0	382.6
157.5°	393.2	392.9	393.2	394.6	392.5
160°	402.5	401.8	401.8	403.5	402.1
162.5°	410.7	409.6	410.0	411.7	409.3
165°	417.5	416.5	416.5	418.5	416.1
167.5°	423.3	421.9	422.3	424.3	422.3
170°	428.1	426.7	426.7	429.1	426.7
172.5°	431.9	430.5	430.5	432.5	430.2
175°	434.3	432.9	432.9	434.9	432.5
177.5°	435.6	434.3	434.3	436.3	433.9
180°	435.3	435.3	435.3	435.3	435.3

(END OF REPORT)