

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: P1012119

Luminaire Tested: S123RDIP-B1000D1025UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012119
REPORT IS A COMBINATION OF REPORTS P992724 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1025UB27-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

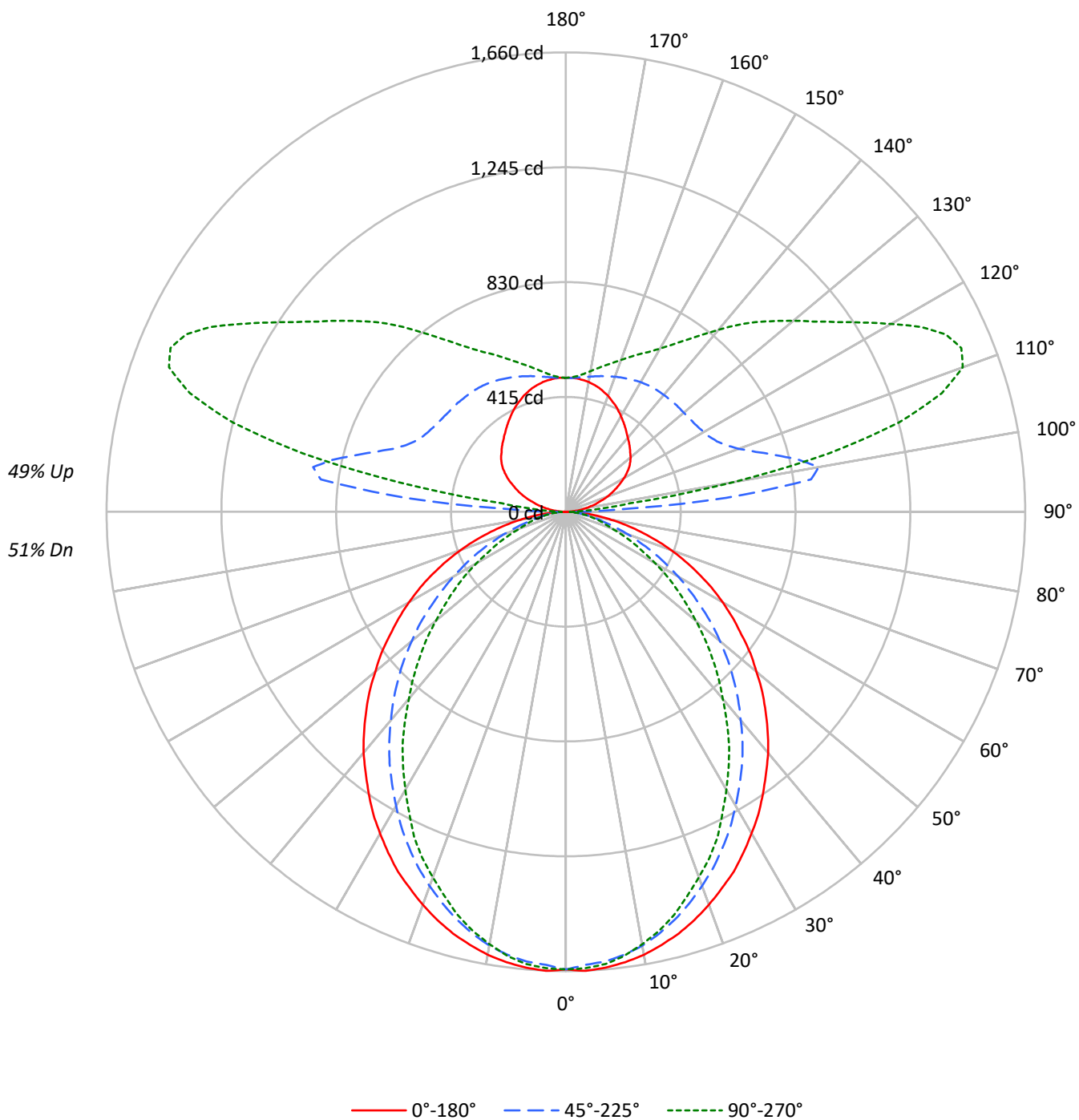
Lumens per Lamp: N/A
Luminaire Lumens: 7387.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	17800	17800	17800
5°	17829	17170	17124
10°	17689	16525	16199
15°	17460	15727	15186
20°	17158	14859	14055
25°	16848	13958	12981
30°	16449	12998	11714
35°	16039	12056	10560
40°	15652	11032	9284
45°	15159	10031	8138
50°	14612	8963	6950
55°	14046	7819	5863
60°	13505	6646	4759
65°	12807	5442	3714
70°	11927	4115	2654
75°	10662	2788	2104
80°	9099	1937	1475
85°	6829	1047	774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.1
10°-20°	432.5	5.9
20°-30°	622.7	8.4
30°-40°	701.2	9.5
40°-50°	670.7	9.1
50°-60°	549.1	7.4
60°-70°	370.2	5.0
70°-80°	185.7	2.5
80°-90°	51.3	0.7
90°-100°	275.0	3.7
100°-110°	768.7	10.4
110°-120°	749.5	10.1
120°-130°	596.8	8.1
130°-140°	471.1	6.4
140°-150°	351.5	4.8
150°-160°	245.2	3.3
160°-170°	144.1	1.9
170°-180°	46.9	0.6
0°-30°	1210.6	16.4
0°-40°	1911.8	25.9
0°-60°	3131.6	42.4
0°-90°	3738.7	50.6
90°-120°	1793.2	24.3
90°-150°	3212.6	43.5
90°-180°	3649.0	49.4
0°-180°	7387.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1654	1647	1631	1643	1640	157
15°	1577	1562	1525	1518	1509	444
25°	1435	1402	1340	1312	1297	660
35°	1242	1194	1110	1053	1029	777
45°	1021	960	857	781	748	788
55°	775	710	596	518	491	695
65°	530	456	351	286	271	524
75°	280	216	142	129	126	299
85°	71	42	38	35	35	78
90°	2	12	24	27	28	7
95°	33	108	581	169	114	35
105°	114	168	788	1377	1246	121
115°	201	250	602	1321	1516	199
125°	279	330	562	1019	1195	248
135°	327	390	554	839	969	253
145°	373	428	548	688	757	234
155°	424	458	530	602	628	195
165°	463	477	508	538	548	131
175°	483	483	487	494	493	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1660.4	1655.0	1638.9	1653.7	1651.0
5°	1653.7	1647.0	1630.9	1643.0	1640.3
7.5°	1641.6	1634.9	1614.8	1622.9	1618.8
10°	1625.5	1616.1	1592.0	1593.3	1586.6
12.5°	1602.7	1592.0	1561.2	1559.8	1551.8
15°	1577.3	1562.5	1524.9	1518.2	1508.8
17.5°	1546.4	1530.3	1483.4	1470.0	1456.5
20°	1511.5	1490.1	1439.1	1421.7	1405.6
22.5°	1472.6	1447.2	1392.2	1369.4	1354.6
25°	1435.1	1401.6	1339.9	1311.7	1296.9
27.5°	1389.5	1353.3	1286.2	1248.7	1225.9
30°	1342.5	1302.3	1227.2	1181.6	1160.1
32.5°	1295.6	1248.7	1168.2	1117.2	1094.4
35°	1242.0	1193.7	1110.5	1052.8	1028.7
37.5°	1188.3	1136.0	1048.8	984.4	954.9
40°	1137.3	1078.3	983.1	913.4	882.5
42.5°	1079.7	1020.7	921.4	843.6	816.8
45°	1020.7	960.3	857.0	780.6	748.4
47.5°	963.0	895.9	794.0	710.8	682.7
50°	898.6	835.6	726.9	643.8	612.9
52.5°	840.9	771.2	663.9	576.7	549.9
55°	775.2	709.5	595.5	517.7	490.9
57.5°	716.2	645.1	529.8	456.0	433.2
60°	654.5	580.7	469.4	397.0	374.2
62.5°	592.8	519.0	407.7	340.7	316.5
65°	529.8	456.0	351.4	285.7	270.9
67.5°	466.7	391.6	289.7	240.1	224.0
70°	405.0	332.6	238.7	191.8	177.0
72.5°	343.3	272.3	189.1	152.9	148.9
75°	280.3	215.9	142.2	128.8	126.1
77.5°	222.6	163.6	111.3	103.3	100.6
80°	167.6	112.7	84.5	80.5	77.8
82.5°	115.3	69.7	60.4	56.3	56.3
85°	71.1	41.6	37.6	34.9	34.9
87.5°	32.2	17.4	17.4	16.1	14.8
90°	2.0	11.8	24.5	27.4	28.4
92.5°	14.7	58.8	182.2	62.2	51.9
95°	33.3	108.2	580.9	169.4	113.6
97.5°	52.9	124.0	893.4	426.2	233.2
100°	72.5	136.7	927.7	891.4	614.2
102.5°	93.1	151.4	864.1	1193.7	972.8
105°	113.6	168.0	787.6	1377.4	1246.1
107.5°	135.2	187.6	720.0	1458.2	1424.4
110°	158.7	207.7	664.2	1460.7	1526.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.3	228.8	627.0	1405.3	1546.9
115°	200.8	250.3	602.5	1321.1	1515.5
117.5°	221.4	270.8	585.8	1230.9	1447.0
120°	243.0	291.4	575.1	1145.7	1356.8
122.5°	261.6	311.0	568.2	1078.6	1272.6
125°	279.2	329.6	562.3	1018.8	1195.2
127.5°	292.9	347.3	559.4	969.8	1128.6
130°	305.7	363.0	556.4	924.8	1073.7
132.5°	315.4	377.2	555.5	882.6	1019.8
135°	327.2	390.4	554.5	839.1	968.9
137.5°	338.0	401.2	552.5	797.9	915.0
140°	348.8	411.0	551.5	757.8	858.2
142.5°	360.5	419.8	549.6	721.0	805.3
145°	373.2	427.6	547.6	688.2	757.3
147.5°	386.0	436.0	544.7	662.8	716.1
150°	398.7	442.8	540.8	640.2	680.9
152.5°	411.5	450.2	535.9	620.6	651.5
155°	424.2	457.5	530.0	602.5	628.0
157.5°	434.0	463.9	525.1	584.9	605.4
160°	445.7	469.3	519.2	568.7	583.9
162.5°	454.6	473.2	513.3	553.5	564.3
165°	463.4	476.6	507.5	538.3	547.6
167.5°	470.2	479.6	501.6	525.1	531.0
170°	476.1	481.0	495.7	513.3	516.3
172.5°	480.0	482.5	490.8	503.0	502.6
175°	483.0	483.4	486.9	493.7	492.8
177.5°	484.9	483.9	483.9	487.9	485.9
180°	483.9	483.9	483.9	483.9	483.9

(END OF REPORT)