

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: P1012160

Luminaire Tested: S123RDIP-B1000D1195UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012160
REPORT IS A COMBINATION OF REPORTS P992785 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1195UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

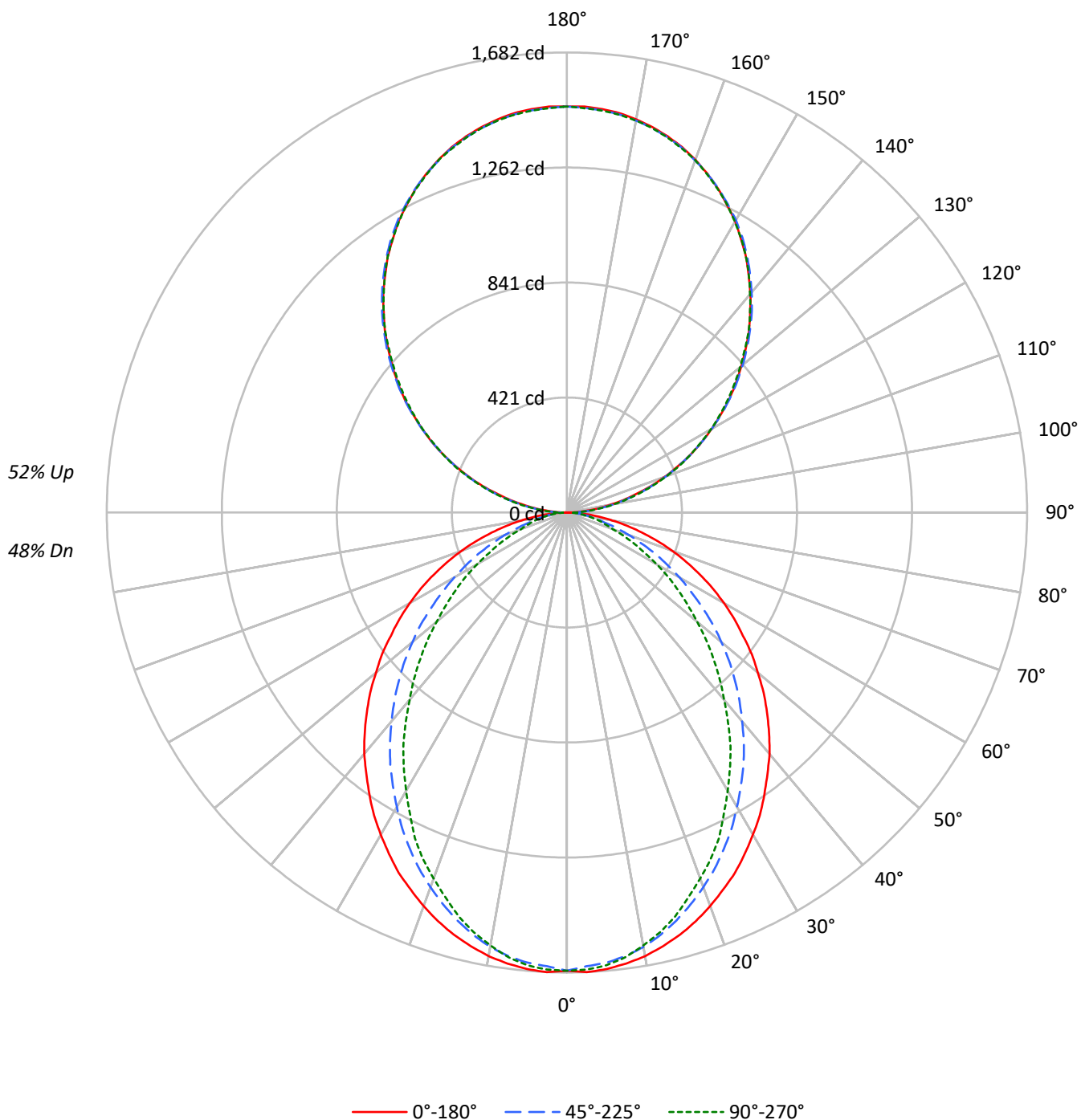
Lumens per Lamp: N/A
Luminaire Lumens: 7901.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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

TEST NUMBER: P1012160

CATALOG NUMBER: S123RDIP-B1000D1195UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1012160

CATALOG NUMBER: S123RDIP-B1000D1195UB35-4F0-XX-W2A-F1

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	98	98	98	98	82	82	82	68	68	68	54	54	54
1	98	93	90	86	90	86	83	80	73	70	68	60	58	57	48	47	46
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	43	41	40
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	38	36	34
4	75	64	56	51	69	59	53	47	50	45	41	42	38	35	34	32	30
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	51	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	59	47	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	18
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17
10	47	35	28	24	44	33	27	22	29	24	20	24	20	18	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18034	18034	18034
5°	18063	17396	17349
10°	17922	16742	16411
15°	17688	15933	15385
20°	17384	15054	14239
25°	17069	14140	13153
30°	16664	13168	11868
35°	16249	12214	10698
40°	15859	11177	9406
45°	15356	10163	8244
50°	14804	9081	7042
55°	14231	7922	5939
60°	13683	6734	4821
65°	12974	5514	3763
70°	12086	4170	2690
75°	10803	2823	2130
80°	9218	1962	1494
85°	6916	1058	782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15356 cd/sqm

TEST NUMBER: P1012160

CATALOG NUMBER: S123RDIP-B1000D1195UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	2.0
10°-20°	438.1	5.5
20°-30°	630.8	8.0
30°-40°	710.4	9.0
40°-50°	679.5	8.6
50°-60°	556.3	7.0
60°-70°	375.0	4.7
70°-80°	188.1	2.4
80°-90°	52.3	0.7
90°-100°	95.6	1.2
100°-110°	289.2	3.7
110°-120°	492.4	6.2
120°-130°	647.7	8.2
130°-140°	728.0	9.2
140°-150°	715.8	9.1
150°-160°	602.6	7.6
160°-170°	401.2	5.1
170°-180°	140.5	1.8
0°-30°	1226.5	15.5
0°-40°	1936.9	24.5
0°-60°	3172.7	40.2
0°-90°	3788.1	47.9
90°-120°	877.1	11.1
90°-150°	2968.6	37.6
90°-180°	4113.0	52.1
0°-180°	7901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1675	1669	1652	1664	1662	159
15°	1598	1583	1545	1538	1529	450
25°	1454	1420	1357	1329	1314	669
35°	1258	1209	1125	1067	1042	788
45°	1034	973	868	791	758	798
55°	785	719	603	524	497	704
65°	537	462	356	289	274	531
75°	284	219	144	130	128	303
85°	72	42	38	35	35	79
90°	1	13	28	33	35	10
95°	69	77	86	91	91	76
105°	262	265	275	275	278	281
115°	496	499	497	498	497	490
125°	725	729	726	722	717	647
135°	941	948	947	942	940	725
145°	1142	1144	1147	1146	1142	713
155°	1307	1307	1308	1313	1305	602
165°	1424	1420	1420	1427	1419	402
175°	1481	1476	1476	1483	1475	141
180°	1484	1484	1484	1484	1484	

TEST NUMBER: P1012160

CATALOG NUMBER: S123RDIP-B1000D1195UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1682.2	1676.7	1660.4	1675.4	1672.7
5°	1675.4	1668.6	1652.3	1664.5	1661.8
7.5°	1663.2	1656.4	1636.0	1644.1	1640.1
10°	1646.9	1637.3	1612.9	1614.2	1607.4
12.5°	1623.8	1612.9	1581.6	1580.3	1572.1
15°	1597.9	1583.0	1544.9	1538.2	1528.6
17.5°	1566.7	1550.4	1502.8	1489.2	1475.6
20°	1531.4	1509.6	1458.0	1440.3	1424.0
22.5°	1492.0	1466.1	1410.4	1387.3	1372.4
25°	1453.9	1419.9	1357.4	1328.9	1314.0
27.5°	1407.7	1371.0	1303.1	1265.0	1241.9
30°	1360.1	1319.4	1243.3	1197.1	1175.4
32.5°	1312.6	1265.0	1183.5	1131.9	1108.8
35°	1258.2	1209.3	1125.1	1066.7	1042.2
37.5°	1203.9	1150.9	1062.6	997.4	967.5
40°	1152.3	1092.5	996.0	925.3	894.1
42.5°	1093.8	1034.0	933.5	854.7	827.5
45°	1034.0	972.9	868.3	790.8	758.2
47.5°	975.6	907.7	804.4	720.2	691.6
50°	910.4	846.5	736.5	652.2	621.0
52.5°	852.0	781.3	672.6	584.3	557.1
55°	785.4	718.8	603.3	524.5	497.3
57.5°	725.6	653.6	536.7	462.0	438.9
60°	663.1	588.4	475.6	402.2	379.1
62.5°	600.6	525.9	413.1	345.1	320.7
65°	536.7	462.0	356.0	289.4	274.5
67.5°	472.9	396.8	293.5	243.2	226.9
70°	410.4	337.0	241.9	194.3	179.4
72.5°	347.9	275.8	191.6	154.9	150.8
75°	284.0	218.8	144.0	130.4	127.7
77.5°	225.6	165.8	112.8	104.6	101.9
80°	169.8	114.1	85.6	81.5	78.8
82.5°	116.9	70.7	61.1	57.1	57.1
85°	72.0	42.1	38.0	35.3	35.3
87.5°	32.6	17.7	17.7	16.3	14.9
90°	1.2	12.8	28.0	32.6	35.0
92.5°	35.0	42.0	49.0	52.5	50.1
95°	68.8	77.0	86.3	90.9	90.9
97.5°	113.1	118.9	125.9	131.8	130.6
100°	158.6	165.6	171.4	174.9	177.2
102.5°	211.1	214.5	222.7	226.2	225.0
105°	262.4	264.7	275.2	275.2	277.5
107.5°	323.0	324.2	328.8	332.3	331.2
110°	379.0	381.3	383.6	388.3	386.0

TEST NUMBER: P1012160

CATALOG NUMBER: S123RDIP-B1000D1195UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.3	438.4	438.4	444.3	444.3
115°	495.6	499.1	496.7	497.9	496.7
117.5°	555.0	556.2	553.9	553.9	550.4
120°	609.8	616.8	611.0	609.8	607.5
122.5°	667.0	671.6	669.3	665.8	662.3
125°	725.3	728.8	726.4	721.8	717.1
127.5°	778.9	785.9	783.6	776.6	771.9
130°	832.5	841.9	838.4	833.7	825.5
132.5°	886.2	895.5	893.2	887.3	881.5
135°	941.0	948.0	946.8	942.1	939.8
137.5°	991.1	997.0	1000.4	994.6	991.1
140°	1043.6	1049.4	1050.6	1049.4	1041.3
142.5°	1091.4	1097.2	1099.6	1098.4	1092.6
145°	1141.5	1143.9	1147.4	1146.2	1141.5
147.5°	1184.7	1189.3	1192.8	1192.8	1185.8
150°	1230.2	1232.5	1234.8	1234.8	1227.8
152.5°	1267.5	1271.0	1272.1	1274.5	1268.6
155°	1307.1	1307.1	1308.3	1312.9	1304.8
157.5°	1340.9	1339.8	1340.9	1345.6	1338.6
160°	1372.4	1370.1	1370.1	1375.9	1371.2
162.5°	1400.4	1396.9	1398.1	1403.9	1395.7
165°	1423.7	1420.2	1420.2	1427.2	1419.1
167.5°	1443.5	1438.9	1440.0	1447.0	1440.0
170°	1459.9	1455.2	1455.2	1463.4	1455.2
172.5°	1472.7	1468.0	1468.0	1475.0	1466.9
175°	1480.9	1476.2	1476.2	1483.2	1475.0
177.5°	1485.5	1480.9	1480.9	1487.8	1479.7
180°	1484.3	1484.3	1484.3	1484.3	1484.3

(END OF REPORT)