

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: P1012147

Luminaire Tested: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012147
REPORT IS A COMBINATION OF REPORTS P992762 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1195UB27-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

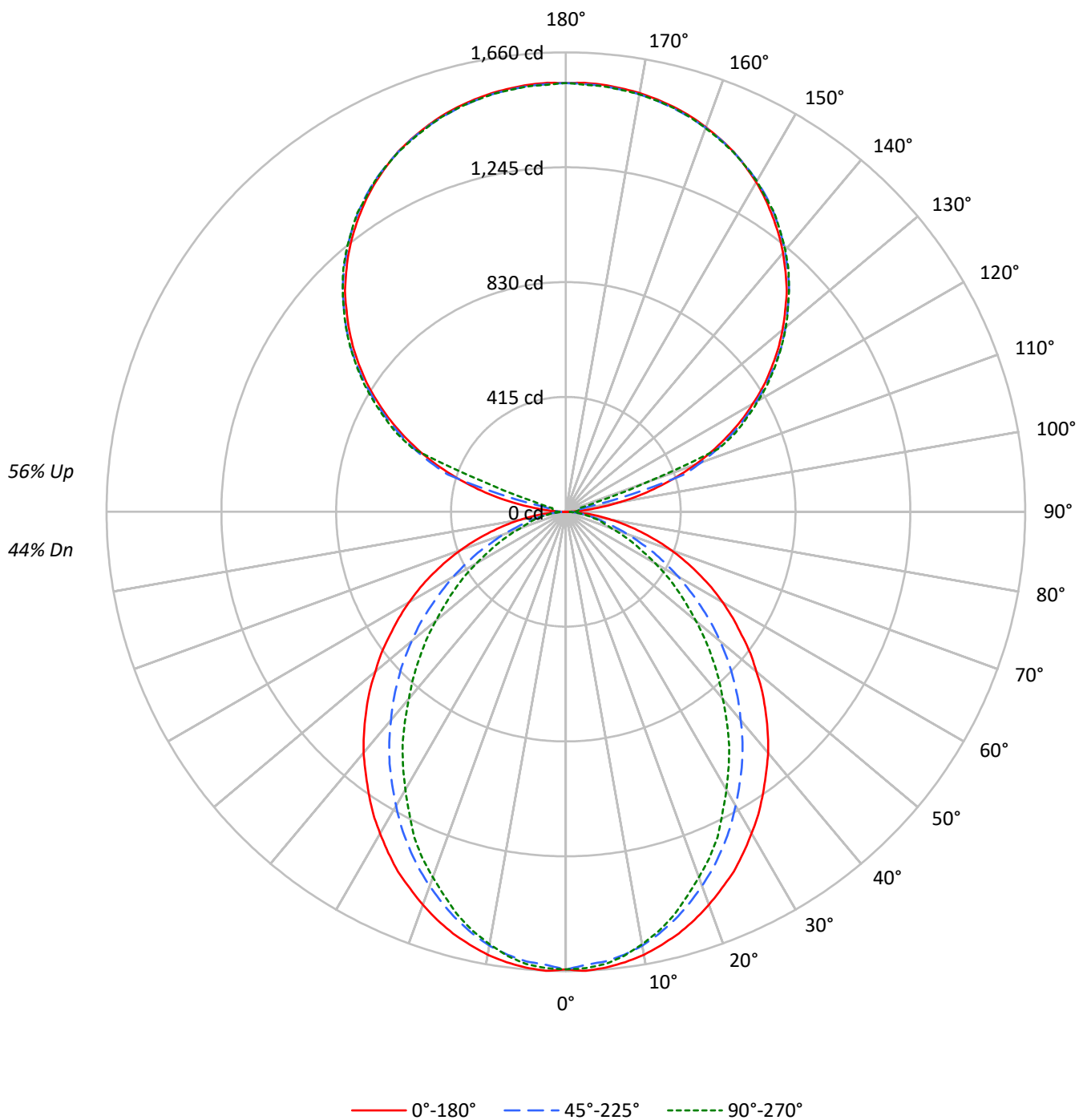
Lumens per Lamp: N/A
Luminaire Lumens: 8462.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	85	88	85	82	79	71	68	66	57	56	55	45	44	43
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	21	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

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	1.8
10°-20°	432.5	5.1
20°-30°	622.7	7.4
30°-40°	701.2	8.3
40°-50°	670.7	7.9
50°-60°	549.1	6.5
60°-70°	370.2	4.4
70°-80°	185.7	2.2
80°-90°	51.6	0.6
90°-100°	54.6	0.6
100°-110°	264.1	3.1
110°-120°	647.3	7.6
120°-130°	821.7	9.7
130°-140°	877.8	10.4
140°-150°	820.8	9.7
150°-160°	662.1	7.8
160°-170°	427.3	5.0
170°-180°	147.2	1.7
0°-30°	1210.6	14.3
0°-40°	1911.8	22.6
0°-60°	3131.6	37.0
0°-90°	3739.1	44.2
90°-120°	966.0	11.4
90°-150°	3486.3	41.2
90°-180°	4723.0	55.8
0°-180°	8462.0	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°	1	13	28	32	34	8
95°	70	23	36	44	44	84
105°	343	356	252	48	51	364
115°	643	650	661	672	677	635
125°	907	916	921	923	925	810
135°	1129	1136	1141	1144	1141	869
145°	1303	1311	1313	1316	1316	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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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°	1.2	12.7	27.6	32.2	34.5
92.5°	26.5	19.6	29.9	38.0	39.1
95°	70.2	23.0	35.7	43.7	43.7
97.5°	127.8	95.5	36.8	46.0	47.2
100°	194.5	217.5	38.0	47.2	48.3
102.5°	270.5	285.4	85.2	47.2	49.5
105°	343.0	355.7	252.1	48.3	50.6
107.5°	420.1	430.5	447.7	270.5	119.7
110°	497.2	506.4	519.1	481.1	316.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	570.9	578.9	591.6	602.0	599.7
115°	643.4	650.3	660.7	672.2	676.8
117.5°	714.8	722.8	728.6	737.8	738.9
120°	780.4	790.7	794.2	803.4	803.4
122.5°	847.1	855.2	859.8	865.5	866.7
125°	907.0	916.2	920.8	923.1	925.4
127.5°	966.8	976.0	981.8	985.2	982.9
130°	1022.1	1031.3	1035.9	1040.5	1038.2
132.5°	1075.0	1084.2	1087.7	1092.3	1088.8
135°	1129.1	1136.0	1140.6	1144.1	1140.6
137.5°	1175.1	1184.4	1186.7	1192.4	1190.1
140°	1221.2	1228.1	1231.5	1236.1	1233.8
142.5°	1263.8	1270.7	1274.1	1277.6	1274.1
145°	1302.9	1311.0	1313.3	1315.6	1315.6
147.5°	1340.9	1346.6	1348.9	1351.2	1345.5
150°	1375.4	1378.9	1381.2	1383.5	1380.0
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)