

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: P1012318

Luminaire Tested: S123RDIP-B1165D1195UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012318
REPORT IS A COMBINATION OF REPORTS P992997 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1195UB50-4F0-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

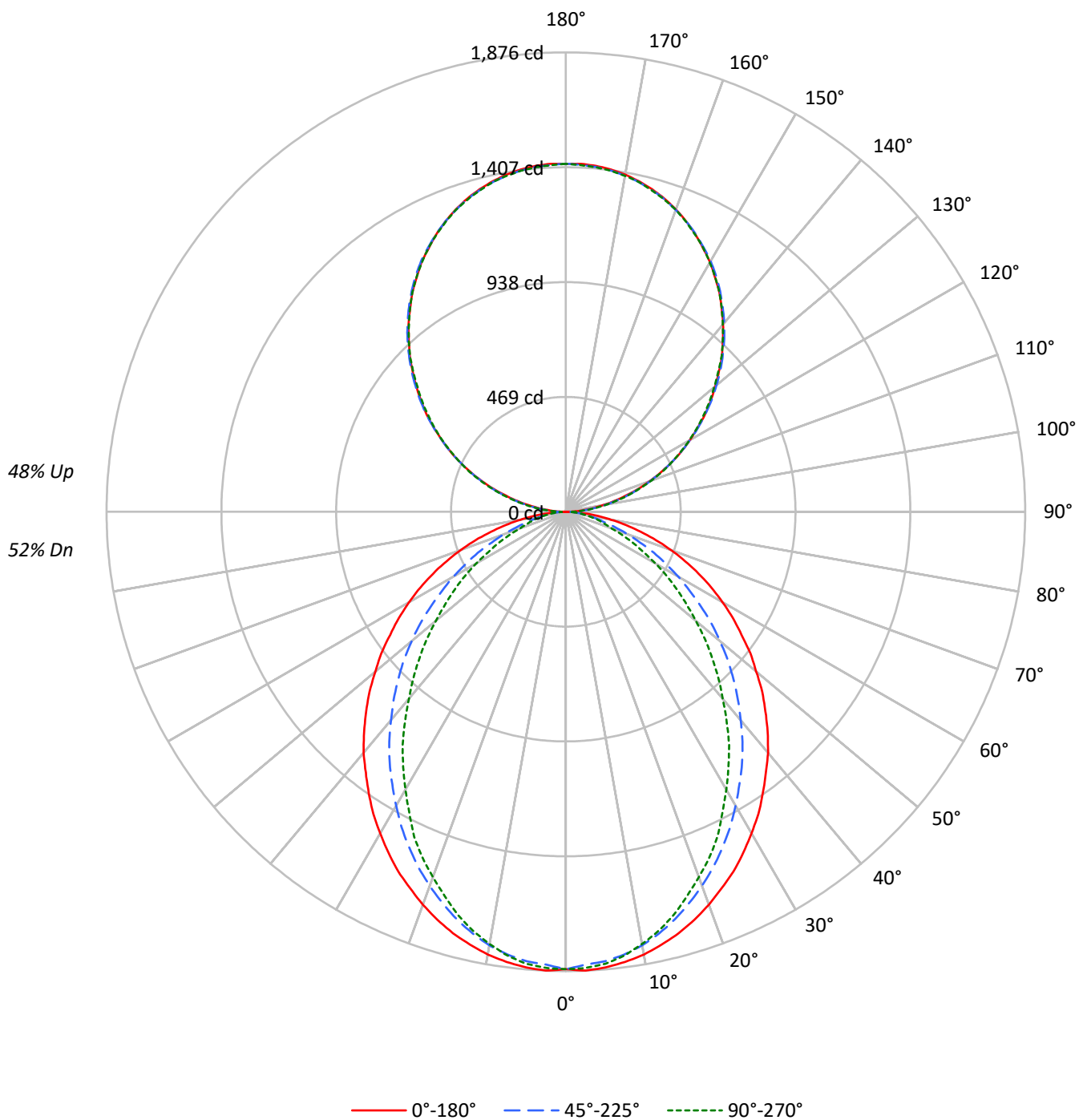
Lumens per Lamp: N/A
Luminaire Lumens: 8161.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58
1	99	94	91	87	91	87	84	81	74	72	70	63	61	59	52	50	49
2	90	83	77	72	83	77	72	67	66	62	58	55	53	50	46	44	42
3	82	73	66	60	76	68	62	57	58	53	50	49	46	43	41	38	36
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	31
5	69	58	50	44	64	54	47	42	47	41	37	40	35	32	33	30	28
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	30	27	24
7	59	47	39	34	55	44	37	32	38	33	29	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	25	22	20
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20106	20106	20106
5°	20139	19395	19343
10°	19980	18665	18298
15°	19721	17764	17154
20°	19381	16784	15875
25°	19030	15765	14664
30°	18581	14682	13231
35°	18116	13618	11928
40°	17681	12462	10487
45°	17122	11332	9191
50°	16505	10124	7851
55°	15865	8832	6623
60°	15255	7507	5376
65°	14465	6147	4195
70°	13473	4649	2999
75°	12043	3148	2376
80°	10282	2187	1667
85°	7713	1181	873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	2.2
10°-20°	488.5	6.0
20°-30°	703.3	8.6
30°-40°	792.1	9.7
40°-50°	757.6	9.3
50°-60°	620.2	7.6
60°-70°	418.1	5.1
70°-80°	209.7	2.6
80°-90°	57.9	0.7
90°-100°	91.5	1.1
100°-110°	276.9	3.4
110°-120°	471.4	5.8
120°-130°	620.2	7.6
130°-140°	697.1	8.5
140°-150°	685.3	8.4
150°-160°	577.0	7.1
160°-170°	384.1	4.7
170°-180°	134.5	1.6
0°-30°	1367.4	16.8
0°-40°	2159.5	26.5
0°-60°	3537.3	43.3
0°-90°	4223.0	51.7
90°-120°	839.8	10.3
90°-150°	2842.4	34.8
90°-180°	3938.0	48.3
0°-180°	8161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1868	1868	1868	1868	1868	
5°	1868	1860	1842	1856	1853	177
15°	1782	1765	1722	1715	1704	502
25°	1621	1583	1513	1482	1465	746
35°	1403	1348	1254	1189	1162	878
45°	1153	1085	968	882	845	890
55°	876	801	673	585	554	785
65°	598	515	397	323	306	592
75°	317	244	161	145	142	337
85°	80	47	42	39	39	88
90°	1	12	27	31	34	10
95°	66	74	83	87	87	73
105°	251	253	264	264	266	269
115°	474	478	476	477	476	470
125°	694	698	696	691	687	619
135°	901	908	907	902	900	694
145°	1093	1095	1099	1098	1093	683
155°	1252	1252	1253	1257	1249	576
165°	1363	1360	1360	1366	1359	384
175°	1418	1413	1413	1420	1412	135
180°	1421	1421	1421	1421	1421	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1867.9	1867.9	1867.9	1867.9	1867.9
2.5°	1875.5	1869.5	1851.3	1867.9	1864.9
5°	1867.9	1860.4	1842.2	1855.8	1852.8
7.5°	1854.3	1846.7	1824.0	1833.1	1828.5
10°	1836.1	1825.5	1798.2	1799.8	1792.2
12.5°	1810.4	1798.2	1763.4	1761.9	1752.8
15°	1781.6	1764.9	1722.5	1714.9	1704.3
17.5°	1746.7	1728.6	1675.5	1660.4	1645.2
20°	1707.4	1683.1	1625.5	1605.8	1587.7
22.5°	1663.4	1634.6	1572.5	1546.8	1530.1
25°	1621.0	1583.1	1513.4	1481.6	1465.0
27.5°	1569.5	1528.6	1452.8	1410.4	1384.7
30°	1516.5	1471.0	1386.2	1334.7	1310.4
32.5°	1463.4	1410.4	1319.5	1262.0	1236.2
35°	1402.8	1348.3	1254.4	1189.2	1162.0
37.5°	1342.2	1283.2	1184.7	1112.0	1078.6
40°	1284.7	1218.0	1110.5	1031.7	996.8
42.5°	1219.5	1152.9	1040.8	952.9	922.6
45°	1152.9	1084.7	968.1	881.7	845.3
47.5°	1087.7	1012.0	896.9	802.9	771.1
50°	1015.0	943.8	821.1	727.2	692.3
52.5°	949.9	871.1	749.9	651.4	621.1
55°	875.6	801.4	672.6	584.8	554.5
57.5°	809.0	728.7	598.4	515.1	489.3
60°	739.3	656.0	530.2	448.4	422.7
62.5°	669.6	586.3	460.5	384.8	357.5
65°	598.4	515.1	396.9	322.7	306.0
67.5°	527.2	442.4	327.2	271.2	253.0
70°	457.5	375.7	269.7	216.6	200.0
72.5°	387.8	307.5	213.6	172.7	168.2
75°	316.6	243.9	160.6	145.4	142.4
77.5°	251.5	184.8	125.7	116.7	113.6
80°	189.4	127.3	95.4	90.9	87.9
82.5°	130.3	78.8	68.2	63.6	63.6
85°	80.3	47.0	42.4	39.4	39.4
87.5°	36.4	19.7	19.7	18.2	16.7
90°	1.1	12.3	26.8	31.3	33.5
92.5°	33.5	40.2	46.9	50.2	48.0
95°	65.9	73.7	82.6	87.1	87.1
97.5°	108.3	113.9	120.6	126.2	125.0
100°	151.8	158.5	164.1	167.5	169.7
102.5°	202.1	205.4	213.2	216.6	215.5
105°	251.2	253.4	263.5	263.5	265.7
107.5°	309.3	310.4	314.8	318.2	317.1
110°	362.8	365.1	367.3	371.8	369.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.7	419.8	419.8	425.4	425.4
115°	474.5	477.8	475.6	476.7	475.6
117.5°	531.4	532.5	530.3	530.3	527.0
120°	583.9	590.6	585.0	583.9	581.7
122.5°	638.6	643.1	640.8	637.5	634.1
125°	694.4	697.8	695.5	691.1	686.6
127.5°	745.8	752.5	750.3	743.6	739.1
130°	797.1	806.1	802.7	798.3	790.4
132.5°	848.5	857.4	855.2	849.6	844.0
135°	901.0	907.7	906.6	902.1	899.9
137.5°	949.0	954.6	957.9	952.3	949.0
140°	999.2	1004.8	1005.9	1004.8	997.0
142.5°	1045.0	1050.6	1052.8	1051.7	1046.1
145°	1093.0	1095.2	1098.6	1097.5	1093.0
147.5°	1134.3	1138.8	1142.1	1142.1	1135.4
150°	1177.9	1180.1	1182.3	1182.3	1175.6
152.5°	1213.6	1216.9	1218.0	1220.3	1214.7
155°	1251.5	1251.5	1252.7	1257.1	1249.3
157.5°	1283.9	1282.8	1283.9	1288.4	1281.7
160°	1314.1	1311.8	1311.8	1317.4	1312.9
162.5°	1340.9	1337.5	1338.6	1344.2	1336.4
165°	1363.2	1359.8	1359.8	1366.5	1358.7
167.5°	1382.2	1377.7	1378.8	1385.5	1378.8
170°	1397.8	1393.3	1393.3	1401.1	1393.3
172.5°	1410.1	1405.6	1405.6	1412.3	1404.5
175°	1417.9	1413.4	1413.4	1420.1	1412.3
177.5°	1422.4	1417.9	1417.9	1424.6	1416.8
180°	1421.2	1421.2	1421.2	1421.2	1421.2

(END OF REPORT)