

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: P1012319

Luminaire Tested: S123RDIP-B1165D1195UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012319
REPORT IS A COMBINATION OF REPORTS P992998 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-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

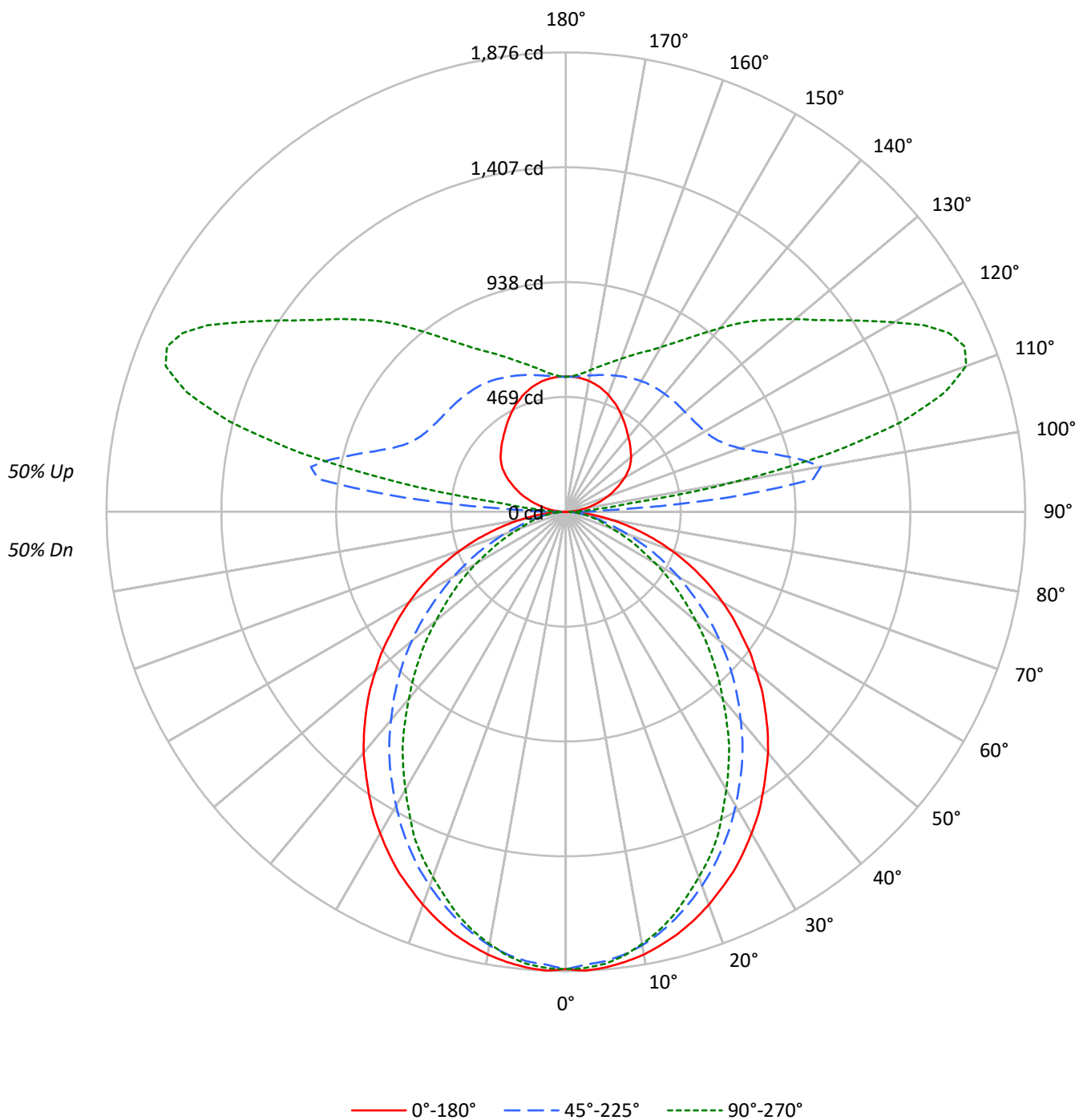
Lumens per Lamp: N/A
Luminaire Lumens: 8381.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		69	69	69		56
1	98	94	90	87	91	87	84	81	74	71	69		62	60	59		50
2	90	82	76	71	83	76	71	67	65	61	58		54	52	49		45
3	82	73	66	60	75	68	61	56	58	53	49		48	45	42		40
4	75	65	57	51	69	60	53	48	51	46	42		43	39	36		36
5	69	58	50	44	64	54	47	41	46	41	36		39	35	32		32
6	64	52	44	38	59	48	41	36	42	36	32		35	31	28		30
7	59	47	39	34	54	44	37	32	38	32	28		32	28	25		27
8	55	43	35	30	51	40	33	28	35	29	25		30	25	22		25
9	51	39	32	27	47	36	30	25	32	26	23		27	23	20		23
10	48	36	29	24	44	34	27	23	29	24	20		25	21	18		21

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	2.1
10°-20°	488.5	5.8
20°-30°	703.3	8.4
30°-40°	792.1	9.4
40°-50°	757.6	9.0
50°-60°	620.2	7.4
60°-70°	418.1	5.0
70°-80°	209.7	2.5
80°-90°	57.9	0.7
90°-100°	313.4	3.7
100°-110°	876.1	10.5
110°-120°	854.3	10.2
120°-130°	680.2	8.1
130°-140°	536.9	6.4
140°-150°	400.6	4.8
150°-160°	279.5	3.3
160°-170°	164.2	2.0
170°-180°	53.4	0.6
0°-30°	1367.4	16.3
0°-40°	2159.5	25.8
0°-60°	3537.3	42.2
0°-90°	4223.1	50.4
90°-120°	2043.8	24.4
90°-150°	3661.5	43.7
90°-180°	4159.0	49.6
0°-180°	8381.6	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°	2	13	28	31	32	8
95°	38	123	662	193	130	40
105°	130	192	898	1570	1420	138
115°	229	285	687	1506	1727	227
125°	318	376	641	1161	1362	283
135°	373	445	632	956	1104	288
145°	425	487	624	784	863	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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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°	2.2	13.4	27.9	31.2	32.4
92.5°	16.7	67.0	207.7	70.9	59.2
95°	38.0	123.4	662.1	193.2	129.5
97.5°	60.3	141.2	1018.3	485.6	265.7
100°	82.6	155.8	1057.4	1016.0	700.1
102.5°	106.1	172.5	984.8	1360.5	1108.7
105°	129.5	191.5	897.7	1569.8	1420.2
107.5°	154.1	213.8	820.7	1662.0	1623.4
110°	180.9	236.7	757.0	1664.8	1739.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.4	260.7	714.6	1601.6	1763.0
115°	228.9	285.2	686.7	1505.6	1727.3
117.5°	252.3	308.8	667.7	1402.9	1649.1
120°	276.9	332.2	655.4	1305.8	1546.4
122.5°	298.1	354.5	647.6	1229.3	1450.4
125°	318.2	375.7	640.9	1161.2	1362.2
127.5°	333.8	395.8	637.5	1105.4	1286.2
130°	348.4	413.6	634.2	1054.0	1223.7
132.5°	359.5	429.9	633.1	1006.0	1162.3
135°	372.9	445.0	632.0	956.3	1104.3
137.5°	385.2	457.2	629.7	909.4	1042.8
140°	397.5	468.4	628.6	863.6	978.1
142.5°	410.9	478.4	626.4	821.8	917.8
145°	425.4	487.4	624.1	784.4	863.1
147.5°	439.9	496.8	620.8	755.4	816.2
150°	454.4	504.6	616.3	729.6	776.0
152.5°	468.9	513.0	610.7	707.3	742.5
155°	483.5	521.4	604.0	686.7	715.7
157.5°	494.6	528.6	598.5	666.6	690.0
160°	508.0	534.8	591.8	648.2	665.5
162.5°	518.1	539.3	585.1	630.8	643.1
165°	528.1	543.2	578.4	613.5	624.1
167.5°	535.9	546.6	571.7	598.4	605.2
170°	542.6	548.2	565.0	585.0	588.4
172.5°	547.1	549.9	559.4	573.3	572.8
175°	550.5	551.0	554.9	562.7	561.6
177.5°	552.7	551.6	551.6	556.0	553.8
180°	551.6	551.6	551.6	551.6	551.6

(END OF REPORT)