

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: P1012301

Luminaire Tested: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012301
REPORT IS A COMBINATION OF REPORTS P992980 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

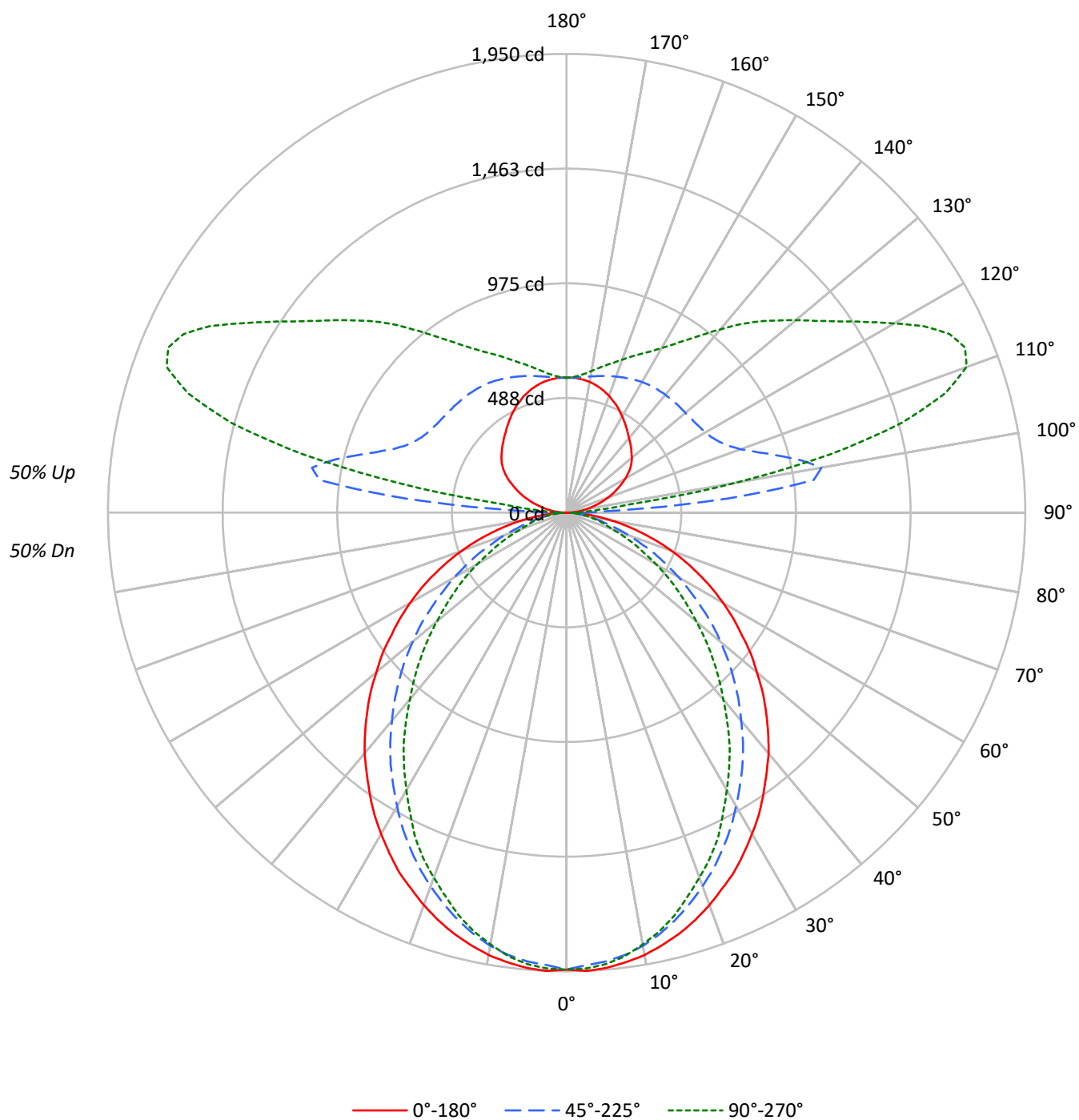
Lumens per Lamp: N/A
Luminaire Lumens: 8716.1 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1012301

CATALOG NUMBER: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1012301

CATALOG NUMBER: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F4

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	69	69	69	56	56	56
1	98	94	90	87	91	87	84	81	74	71	69	62	60	59	50	49	48
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41
3	82	73	66	60	75	67	61	56	58	53	49	48	45	42	40	38	35
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	32	29	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	36	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°	20907	20907	20907
5°	20941	20167	20112
10°	20776	19408	19026
15°	20506	18472	17837
20°	20152	17453	16507
25°	19787	16393	15248
30°	19319	15266	13759
35°	18838	14159	12402
40°	18384	12958	10904
45°	17804	11782	9558
50°	17162	10527	8164
55°	16498	9184	6885
60°	15862	7805	5589
65°	15041	6392	4362
70°	14009	4834	3117
75°	12523	3274	2471
80°	10690	2274	1733
85°	8021	1228	909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17804 cd/sqm

TEST NUMBER: P1012301

CATALOG NUMBER: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	2.1
10°-20°	507.9	5.8
20°-30°	731.3	8.4
30°-40°	823.6	9.4
40°-50°	787.8	9.0
50°-60°	644.9	7.4
60°-70°	434.8	5.0
70°-80°	218.1	2.5
80°-90°	60.2	0.7
90°-100°	326.0	3.7
100°-110°	911.1	10.5
110°-120°	888.4	10.2
120°-130°	707.4	8.1
130°-140°	558.4	6.4
140°-150°	416.6	4.8
150°-160°	290.6	3.3
160°-170°	170.7	2.0
170°-180°	55.5	0.6
0°-30°	1421.8	16.3
0°-40°	2245.4	25.8
0°-60°	3678.1	42.2
0°-90°	4391.2	50.4
90°-120°	2125.5	24.4
90°-150°	3807.9	43.7
90°-180°	4325.0	49.6
0°-180°	8716.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1942	1934	1916	1930	1926	184
15°	1852	1835	1791	1783	1772	522
25°	1686	1646	1574	1541	1523	775
35°	1459	1402	1304	1237	1208	913
45°	1199	1128	1007	917	879	925
55°	910	833	699	608	576	817
65°	622	536	413	336	318	616
75°	329	254	167	151	148	351
85°	84	49	44	41	41	91
90°	2	14	29	33	34	8
95°	40	128	689	201	135	42
105°	135	199	934	1633	1477	143
115°	238	297	714	1566	1796	236
125°	331	391	666	1208	1417	294
135°	388	463	657	995	1148	300
145°	442	507	649	816	898	277
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

TEST NUMBER: P1012301

CATALOG NUMBER: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.3	1942.3	1942.3	1942.3	1942.3
2.5°	1950.2	1943.9	1925.0	1942.3	1939.1
5°	1942.3	1934.4	1915.5	1929.7	1926.5
7.5°	1928.1	1920.2	1896.6	1906.1	1901.3
10°	1909.2	1898.2	1869.8	1871.4	1863.5
12.5°	1882.4	1869.8	1833.6	1832.0	1822.6
15°	1852.5	1835.2	1791.1	1783.2	1772.2
17.5°	1816.3	1797.4	1742.2	1726.5	1710.7
20°	1775.3	1750.1	1690.3	1669.8	1650.9
22.5°	1729.6	1699.7	1635.1	1608.3	1591.0
25°	1685.5	1646.2	1573.7	1540.6	1523.3
27.5°	1632.0	1589.4	1510.7	1466.6	1439.8
30°	1576.8	1529.6	1441.4	1387.8	1362.6
32.5°	1521.7	1466.6	1372.1	1312.2	1285.4
35°	1458.7	1402.0	1304.3	1236.6	1208.2
37.5°	1395.7	1334.2	1231.9	1156.2	1121.6
40°	1335.8	1266.5	1154.7	1072.8	1036.5
42.5°	1268.1	1198.8	1082.2	990.8	959.3
45°	1198.8	1127.9	1006.6	916.8	879.0
47.5°	1131.0	1052.3	932.6	834.9	801.8
50°	1055.4	981.4	853.8	756.1	719.9
52.5°	987.7	905.8	779.8	677.4	645.9
55°	910.5	833.3	699.4	608.1	576.5
57.5°	841.2	757.7	622.2	535.6	508.8
60°	768.7	682.1	551.3	466.3	439.5
62.5°	696.3	609.6	478.9	400.1	371.8
65°	622.2	535.6	412.7	335.5	318.2
67.5°	548.2	460.0	340.3	282.0	263.1
70°	475.7	390.7	280.4	225.3	207.9
72.5°	403.3	319.8	222.1	179.6	174.9
75°	329.2	253.6	167.0	151.2	148.1
77.5°	261.5	192.2	130.7	121.3	118.1
80°	196.9	132.3	99.2	94.5	91.4
82.5°	135.5	81.9	70.9	66.2	66.2
85°	83.5	48.8	44.1	41.0	41.0
87.5°	37.8	20.5	20.5	18.9	17.3
90°	2.3	14.0	29.0	32.6	33.7
92.5°	17.4	69.6	216.0	73.8	61.5
95°	39.5	128.4	688.6	200.9	134.7
97.5°	62.7	146.9	1059.0	505.1	276.4
100°	85.9	162.0	1099.6	1056.6	728.1
102.5°	110.3	179.4	1024.2	1414.9	1153.0
105°	134.7	199.1	933.6	1632.6	1477.0
107.5°	160.2	222.4	853.5	1728.4	1688.3
110°	188.1	246.2	787.3	1731.4	1809.1



TEST NUMBER: P1012301

CATALOG NUMBER: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.7	271.2	743.2	1665.7	1833.5
115°	238.0	296.7	714.1	1565.8	1796.3
117.5°	262.4	321.0	694.4	1459.0	1715.1
120°	288.0	345.4	681.6	1358.0	1608.2
122.5°	310.0	368.6	673.5	1278.4	1508.4
125°	330.9	390.8	666.5	1207.6	1416.6
127.5°	347.2	411.6	663.0	1149.6	1337.7
130°	362.3	430.2	659.5	1096.2	1272.6
132.5°	373.9	447.0	658.4	1046.2	1208.8
135°	387.8	462.8	657.2	994.6	1148.4
137.5°	400.6	475.5	654.9	945.8	1084.5
140°	413.4	487.1	653.7	898.2	1017.2
142.5°	427.3	497.6	651.4	854.6	954.5
145°	442.4	506.8	649.1	815.8	897.6
147.5°	457.5	516.7	645.6	785.5	848.8
150°	472.6	524.8	641.0	758.8	807.0
152.5°	487.7	533.6	635.2	735.6	772.2
155°	502.8	542.2	628.2	714.2	744.3
157.5°	514.4	549.8	622.4	693.2	717.6
160°	528.3	556.2	615.4	674.0	692.1
162.5°	538.8	560.8	608.5	656.0	668.8
165°	549.2	564.9	601.5	638.1	649.1
167.5°	557.4	568.4	594.5	622.4	629.4
170°	564.3	570.2	587.6	608.4	611.9
172.5°	569.0	571.9	581.7	596.2	595.7
175°	572.5	573.0	577.1	585.2	584.1
177.5°	574.8	573.6	573.6	578.3	575.9
180°	573.6	573.6	573.6	573.6	573.6

(END OF REPORT)