

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: P1012300

Luminaire Tested: S123RDIP-B1165D1195UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012300
REPORT IS A COMBINATION OF REPORTS P992979 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-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

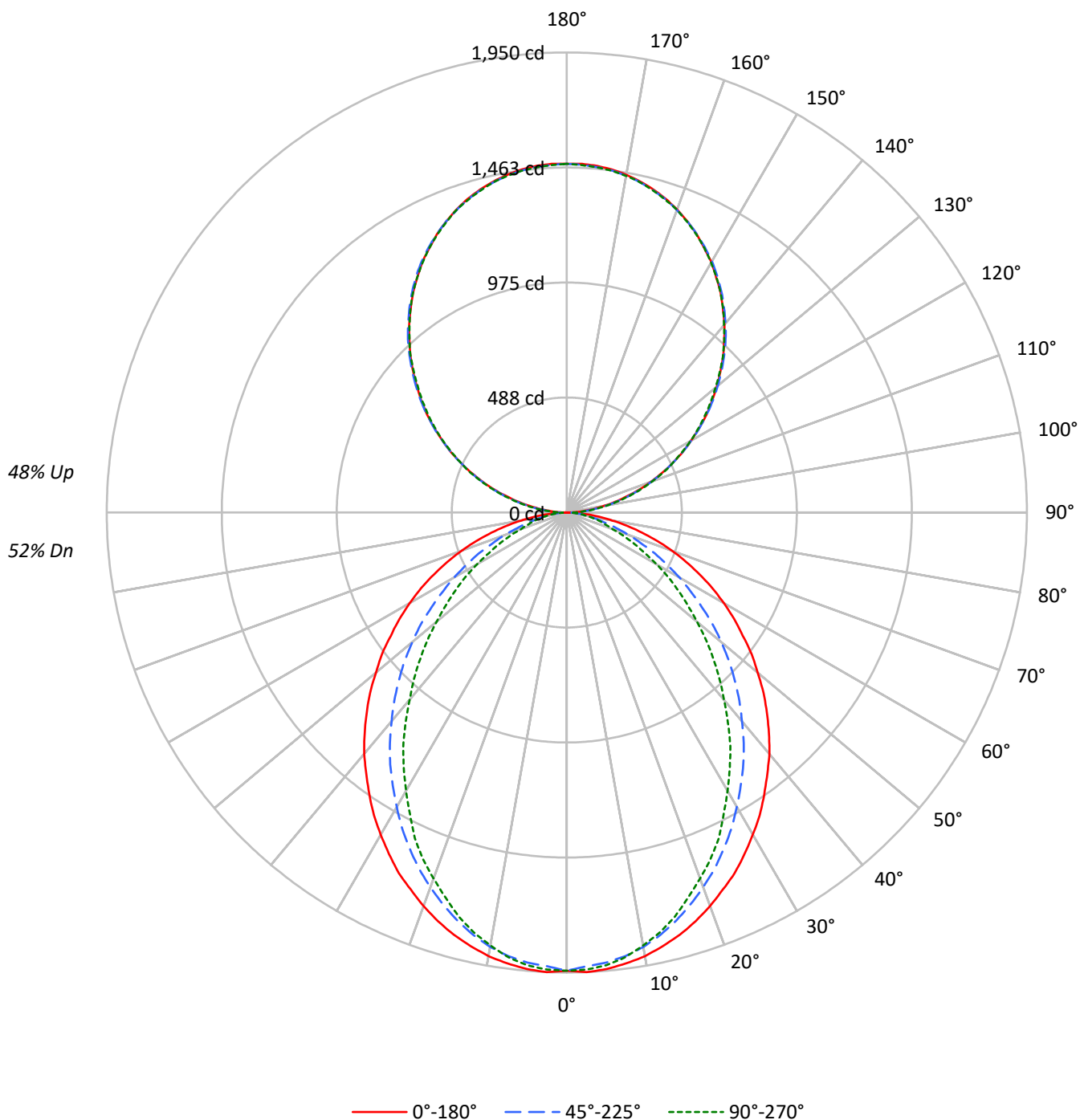
Lumens per Lamp: N/A
Luminaire Lumens: 8487.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	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	58	58	52
1	99	94	91	87	91	87	84	81	74	72	70	63	61	59	52	50	49	49	49	44
2	90	83	77	72	83	77	72	67	66	62	58	55	53	50	46	44	42	42	42	38
3	82	73	66	60	76	68	62	57	58	53	50	49	46	43	41	38	36	36	36	32
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	31	31	31	28
5	69	58	50	44	64	54	47	42	47	41	37	40	35	32	33	30	28	28	28	24
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	30	27	24	24	24	22
7	59	47	39	34	55	44	37	32	38	33	29	33	28	25	28	24	22	22	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	25	22	20	20	20	17
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18	18	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	16	16	14

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	2.2
10°-20°	507.9	6.0
20°-30°	731.3	8.6
30°-40°	823.6	9.7
40°-50°	787.8	9.3
50°-60°	644.9	7.6
60°-70°	434.8	5.1
70°-80°	218.1	2.6
80°-90°	60.1	0.7
90°-100°	95.2	1.1
100°-110°	288.0	3.4
110°-120°	490.3	5.8
120°-130°	645.0	7.6
130°-140°	725.0	8.5
140°-150°	712.8	8.4
150°-160°	600.1	7.1
160°-170°	399.5	4.7
170°-180°	139.9	1.6
0°-30°	1421.8	16.8
0°-40°	2245.4	26.5
0°-60°	3678.1	43.3
0°-90°	4391.1	51.7
90°-120°	873.5	10.3
90°-150°	2956.4	34.8
90°-180°	4096.0	48.3
0°-180°	8487.0	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°	1	13	28	32	35	10
95°	68	77	86	91	91	75
105°	261	264	274	274	276	280
115°	494	497	495	496	495	488
125°	722	726	723	719	714	644
135°	937	944	943	938	936	722
145°	1137	1139	1143	1142	1137	710
155°	1302	1302	1303	1308	1299	599
165°	1418	1414	1414	1421	1413	400
175°	1475	1470	1470	1477	1469	140
180°	1478	1478	1478	1478	1478	

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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°	1.2	12.8	27.9	32.5	34.8
92.5°	34.8	41.8	48.8	52.3	49.9
95°	68.5	76.6	85.9	90.6	90.6
97.5°	112.6	118.4	125.4	131.2	130.1
100°	157.9	164.9	170.7	174.2	176.5
102.5°	210.2	213.7	221.8	225.3	224.1
105°	261.3	263.6	274.0	274.0	276.4
107.5°	321.7	322.8	327.5	330.9	329.8
110°	377.4	379.7	382.0	386.7	384.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.5	436.6	436.6	442.4	442.4
115°	493.5	497.0	494.7	495.8	494.7
117.5°	552.7	553.9	551.6	551.6	548.1
120°	607.3	614.3	608.5	607.3	605.0
122.5°	664.2	668.9	666.5	663.1	659.6
125°	722.3	725.8	723.4	718.8	714.1
127.5°	775.7	782.7	780.3	773.4	768.7
130°	829.1	838.4	834.9	830.3	822.1
132.5°	882.5	891.8	889.5	883.7	877.9
135°	937.1	944.1	942.9	938.3	935.9
137.5°	987.0	992.8	996.3	990.5	987.0
140°	1039.3	1045.1	1046.2	1045.1	1037.0
142.5°	1086.9	1092.7	1095.0	1093.9	1088.1
145°	1136.8	1139.1	1142.6	1141.5	1136.8
147.5°	1179.8	1184.4	1187.9	1187.9	1180.9
150°	1225.1	1227.4	1229.7	1229.7	1222.8
152.5°	1262.2	1265.7	1266.9	1269.2	1263.4
155°	1301.7	1301.7	1302.9	1307.5	1299.4
157.5°	1335.4	1334.2	1335.4	1340.0	1333.1
160°	1366.7	1364.4	1364.4	1370.2	1365.6
162.5°	1394.6	1391.1	1392.3	1398.1	1390.0
165°	1417.8	1414.4	1414.4	1421.3	1413.2
167.5°	1437.6	1432.9	1434.1	1441.1	1434.1
170°	1453.8	1449.2	1449.2	1457.3	1449.2
172.5°	1466.6	1462.0	1462.0	1468.9	1460.8
175°	1474.7	1470.1	1470.1	1477.1	1468.9
177.5°	1479.4	1474.7	1474.7	1481.7	1473.6
180°	1478.2	1478.2	1478.2	1478.2	1478.2

(END OF REPORT)