

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: P1012294

Luminaire Tested: S123RDIP-B1165D1195UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012294
REPORT IS A COMBINATION OF REPORTS P992963 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1195UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

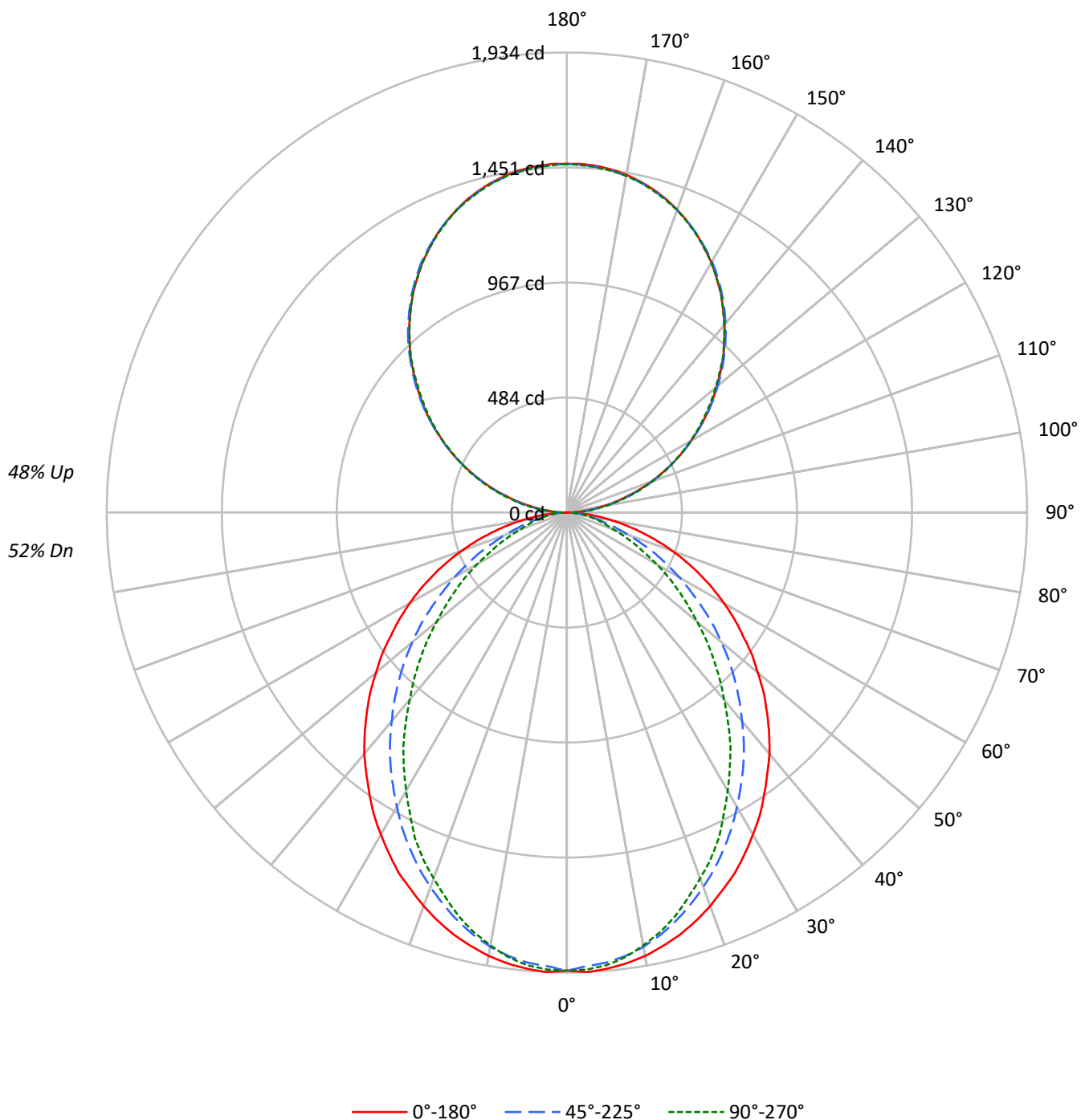
Lumens per Lamp: N/A
Luminaire Lumens: 8415.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	58
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°	20730	20730	20730
5°	20764	19997	19943
10°	20601	19245	18866
15°	20334	18316	17686
20°	19983	17305	16368
25°	19621	16255	15119
30°	19156	15137	13642
35°	18679	14040	12298
40°	18230	12848	10813
45°	17654	11683	9477
50°	17017	10438	8094
55°	16358	9106	6828
60°	15727	7740	5542
65°	14915	6338	4325
70°	13891	4792	3092
75°	12420	3246	2449
80°	10597	2255	1718
85°	7953	1217	900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.2
10°-20°	503.7	6.0
20°-30°	725.2	8.6
30°-40°	816.6	9.7
40°-50°	781.2	9.3
50°-60°	639.4	7.6
60°-70°	431.1	5.1
70°-80°	216.2	2.6
80°-90°	59.6	0.7
90°-100°	94.3	1.1
100°-110°	285.6	3.4
110°-120°	486.1	5.8
120°-130°	639.5	7.6
130°-140°	718.9	8.5
140°-150°	706.7	8.4
150°-160°	595.0	7.1
160°-170°	396.1	4.7
170°-180°	138.7	1.6
0°-30°	1409.9	16.8
0°-40°	2226.5	26.5
0°-60°	3647.1	43.3
0°-90°	4354.1	51.7
90°-120°	866.0	10.3
90°-150°	2931.1	34.8
90°-180°	4061.0	48.3
0°-180°	8415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1926	1918	1899	1913	1910	183
15°	1837	1820	1776	1768	1757	518
25°	1671	1632	1560	1528	1510	769
35°	1446	1390	1293	1226	1198	905
45°	1189	1118	998	909	872	917
55°	903	826	694	603	572	810
65°	617	531	409	333	316	611
75°	326	252	166	150	147	348
85°	83	48	44	41	41	91
90°	1	13	28	32	34	10
95°	68	76	85	90	90	75
105°	259	261	272	272	274	277
115°	489	493	490	492	490	484
125°	716	720	717	713	708	639
135°	929	936	935	930	928	716
145°	1127	1129	1133	1132	1127	704
155°	1291	1291	1292	1296	1288	594
165°	1406	1402	1402	1409	1401	396
175°	1462	1458	1458	1464	1456	139
180°	1466	1466	1466	1466	1466	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1933.7	1927.5	1908.7	1925.9	1922.8
5°	1925.9	1918.1	1899.4	1913.4	1910.3
7.5°	1911.9	1904.1	1880.6	1890.0	1885.3
10°	1893.1	1882.2	1854.1	1855.6	1847.8
12.5°	1866.6	1854.1	1818.1	1816.6	1807.2
15°	1836.9	1819.7	1776.0	1768.2	1757.2
17.5°	1801.0	1782.2	1727.6	1711.9	1696.3
20°	1760.4	1735.4	1676.0	1655.7	1637.0
22.5°	1715.1	1685.4	1621.3	1594.8	1577.6
25°	1671.3	1632.3	1560.4	1527.6	1510.4
27.5°	1618.2	1576.0	1497.9	1454.2	1427.7
30°	1563.5	1516.7	1429.2	1376.1	1351.1
32.5°	1508.9	1454.2	1360.5	1301.1	1274.6
35°	1446.4	1390.2	1293.3	1226.2	1198.0
37.5°	1383.9	1323.0	1221.5	1146.5	1112.1
40°	1324.6	1255.8	1144.9	1063.7	1027.8
42.5°	1257.4	1188.7	1073.1	982.5	951.2
45°	1188.7	1118.4	998.1	909.1	871.6
47.5°	1121.5	1043.4	924.7	827.8	795.0
50°	1046.5	973.1	846.6	749.8	713.8
52.5°	979.4	898.1	773.2	671.7	640.4
55°	902.8	826.3	693.5	602.9	571.7
57.5°	834.1	751.3	617.0	531.1	504.5
60°	762.2	676.3	546.7	462.3	435.8
62.5°	690.4	604.5	474.8	396.7	368.6
65°	617.0	531.1	409.2	332.7	315.5
67.5°	543.6	456.1	337.4	279.6	260.9
70°	471.7	387.4	278.0	223.4	206.2
72.5°	399.9	317.1	220.2	178.1	173.4
75°	326.5	251.5	165.6	150.0	146.8
77.5°	259.3	190.6	129.6	120.3	117.1
80°	195.2	131.2	98.4	93.7	90.6
82.5°	134.3	81.2	70.3	65.6	65.6
85°	82.8	48.4	43.7	40.6	40.6
87.5°	37.5	20.3	20.3	18.7	17.2
90°	1.2	12.7	27.6	32.2	34.5
92.5°	34.5	41.4	48.4	51.8	49.5
95°	67.9	76.0	85.2	89.8	89.8
97.5°	111.7	117.4	124.3	130.1	128.9
100°	156.6	163.5	169.2	172.7	175.0
102.5°	208.4	211.8	219.9	223.4	222.2
105°	259.0	261.3	271.7	271.7	274.0
107.5°	318.9	320.1	324.7	328.1	327.0
110°	374.2	376.5	378.8	383.4	381.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	431.7	432.9	432.9	438.6	438.6
115°	489.3	492.8	490.5	491.6	490.5
117.5°	548.0	549.2	546.9	546.9	543.4
120°	602.1	609.0	603.3	602.1	599.8
122.5°	658.5	663.1	660.8	657.4	653.9
125°	716.1	719.6	717.3	712.7	708.0
127.5°	769.1	776.0	773.7	766.8	762.2
130°	822.0	831.2	827.8	823.2	815.1
132.5°	875.0	884.2	881.9	876.1	870.4
135°	929.1	936.0	934.9	930.2	927.9
137.5°	978.6	984.4	987.8	982.1	978.6
140°	1030.4	1036.2	1037.3	1036.2	1028.1
142.5°	1077.6	1083.4	1085.7	1084.5	1078.8
145°	1127.1	1129.4	1132.9	1131.7	1127.1
147.5°	1169.7	1174.3	1177.8	1177.8	1170.9
150°	1214.6	1216.9	1219.2	1219.2	1212.3
152.5°	1251.5	1254.9	1256.1	1258.4	1252.6
155°	1290.6	1290.6	1291.8	1296.4	1288.3
157.5°	1324.0	1322.8	1324.0	1328.6	1321.7
160°	1355.1	1352.8	1352.8	1358.5	1353.9
162.5°	1382.7	1379.2	1380.4	1386.2	1378.1
165°	1405.7	1402.3	1402.3	1409.2	1401.1
167.5°	1425.3	1420.7	1421.8	1428.8	1421.8
170°	1441.4	1436.8	1436.8	1444.9	1436.8
172.5°	1454.1	1449.5	1449.5	1456.4	1448.3
175°	1462.1	1457.5	1457.5	1464.4	1456.4
177.5°	1466.7	1462.1	1462.1	1469.1	1461.0
180°	1465.6	1465.6	1465.6	1465.6	1465.6

(END OF REPORT)