

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: P1010936

Luminaire Tested: S123RDIP-B560D1195UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010936
REPORT IS A COMBINATION OF REPORTS P993372 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1195UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

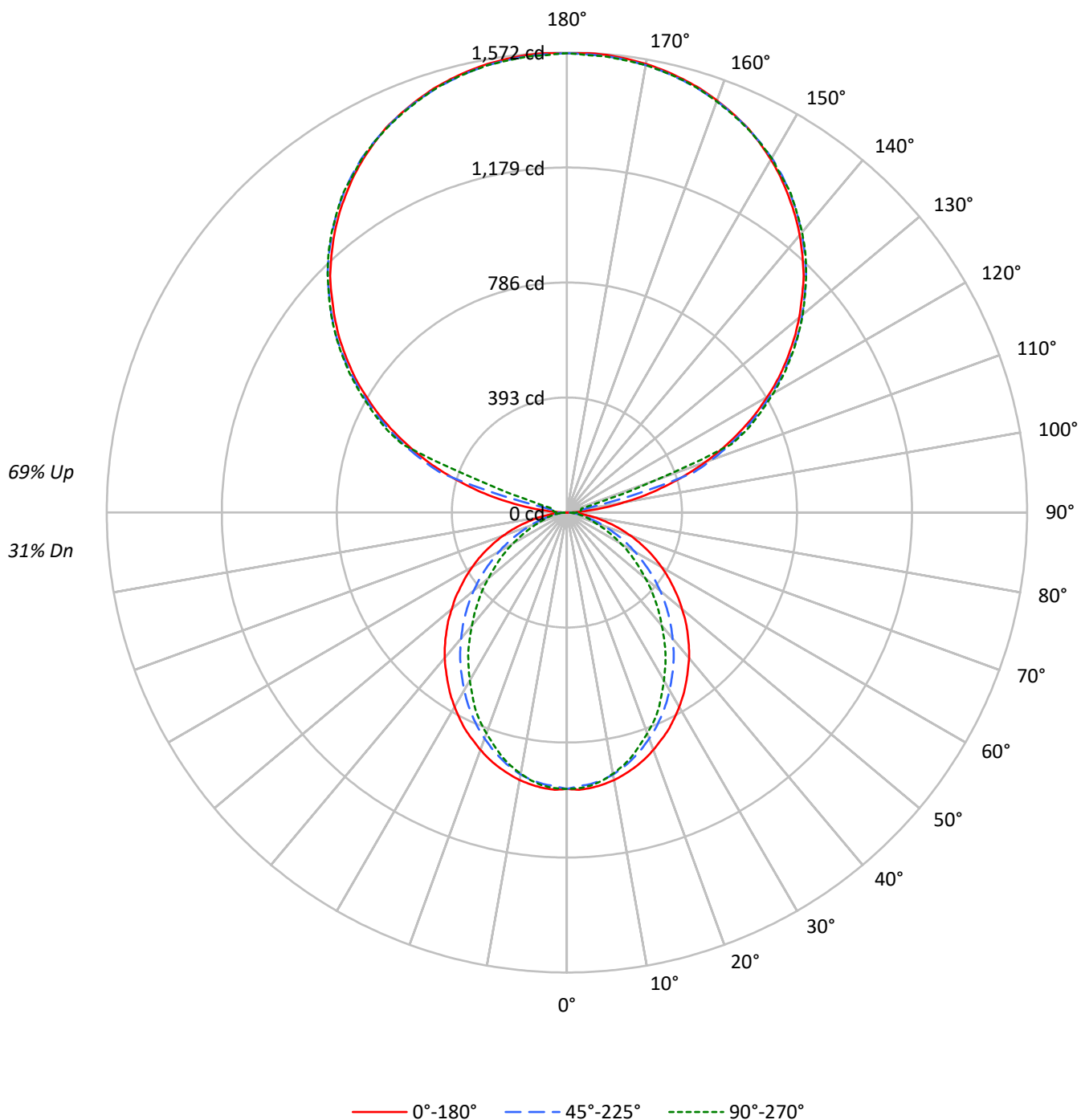
Lumens per Lamp: N/A
Luminaire Lumens: 6922.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	34	34	33	33	33	33
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28	28	28	28
3	78	69	62	57	70	62	56	52	50	46	42	38	35	33	27	25	24	24	24	24
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	21	21	21
5	65	54	47	41	59	49	43	38	40	35	31	30	27	25	22	20	18	18	18	18
6	60	49	41	35	54	44	37	33	36	31	27	28	24	21	20	18	16	16	16	16
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	18	16	14	14	14	14
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	15	13	13	13	13
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	12	12	12
10	45	33	26	22	40	30	24	20	25	20	17	19	16	14	14	12	11	11	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10168	10168	10168
5°	10184	9808	9781
10°	10104	9440	9253
15°	9972	8983	8675
20°	9801	8487	8028
25°	9623	7972	7415
30°	9396	7425	6691
35°	9161	6886	6032
40°	8940	6301	5303
45°	8658	5730	4648
50°	8347	5119	3970
55°	8023	4466	3349
60°	7715	3796	2718
65°	7315	3108	2122
70°	6814	2351	1516
75°	6090	1592	1201
80°	5201	1107	842
85°	3900	599	441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.3
10°-20°	247.0	3.6
20°-30°	355.7	5.1
30°-40°	400.5	5.8
40°-50°	383.1	5.5
50°-60°	313.6	4.5
60°-70°	211.5	3.1
70°-80°	106.1	1.5
80°-90°	30.9	0.4
90°-100°	55.3	0.8
100°-110°	267.6	3.9
110°-120°	655.8	9.5
120°-130°	832.5	12.0
130°-140°	889.3	12.8
140°-150°	831.6	12.0
150°-160°	670.8	9.7
160°-170°	432.9	6.3
170°-180°	149.2	2.2
0°-30°	691.5	10.0
0°-40°	1092.0	15.8
0°-60°	1788.8	25.8
0°-90°	2137.1	30.9
90°-120°	978.7	14.1
90°-150°	3532.1	51.0
90°-180°	4785.0	69.1
0°-180°	6922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	941	932	938	937	90
15°	901	892	871	867	862	254
25°	820	801	765	749	741	377
35°	709	682	634	601	588	444
45°	583	548	490	446	428	450
55°	443	405	340	296	280	397
65°	303	260	201	163	155	299
75°	160	123	81	74	72	171
85°	41	24	22	20	20	44
90°	1	13	28	33	35	7
95°	71	23	36	44	44	85
105°	348	360	255	49	51	368
115°	652	659	669	681	686	644
125°	919	928	933	935	938	821
135°	1144	1151	1156	1159	1156	881
145°	1320	1328	1330	1333	1333	826
155°	1454	1452	1453	1459	1452	670
165°	1533	1530	1529	1538	1530	433
175°	1570	1564	1565	1573	1564	149
180°	1570	1570	1570	1570	1570	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.6	944.6	944.6	944.6	944.6
2.5°	948.4	945.4	936.2	944.6	943.1
5°	944.6	940.8	931.6	938.5	936.9
7.5°	937.7	933.9	922.4	927.0	924.7
10°	928.5	923.1	909.4	910.1	906.3
12.5°	915.5	909.4	891.7	891.0	886.4
15°	900.9	892.5	871.0	867.2	861.9
17.5°	883.3	874.1	847.3	839.6	832.0
20°	863.4	851.1	822.0	812.1	802.9
22.5°	841.2	826.6	795.2	782.2	773.8
25°	819.7	800.6	765.3	749.2	740.8
27.5°	793.7	773.0	734.7	713.2	700.2
30°	766.9	743.9	701.0	674.9	662.7
32.5°	740.0	713.2	667.3	638.2	625.1
35°	709.4	681.8	634.3	601.4	587.6
37.5°	678.8	648.9	599.1	562.3	545.5
40°	649.6	615.9	561.5	521.7	504.1
42.5°	616.7	583.0	526.3	481.9	466.6
45°	583.0	548.5	489.5	445.9	427.5
47.5°	550.1	511.7	453.5	406.0	389.9
50°	513.3	477.3	415.2	367.7	350.1
52.5°	480.3	440.5	379.2	329.4	314.1
55°	442.8	405.3	340.1	295.7	280.4
57.5°	409.1	368.5	302.6	260.5	247.4
60°	373.9	331.7	268.1	226.8	213.7
62.5°	338.6	296.5	232.9	194.6	180.8
65°	302.6	260.5	200.7	163.2	154.8
67.5°	266.6	223.7	165.5	137.1	127.9
70°	231.4	190.0	136.4	109.6	101.1
72.5°	196.1	155.5	108.0	87.3	85.0
75°	160.1	123.3	81.2	73.5	72.0
77.5°	127.2	93.5	63.6	59.0	57.5
80°	95.8	64.4	48.3	46.0	44.4
82.5°	65.9	39.8	34.5	32.2	32.2
85°	40.6	23.7	21.5	19.9	19.9
87.5°	18.4	10.0	10.0	9.2	8.4
90°	1.2	12.8	28.0	32.7	35.0
92.5°	26.8	19.8	30.3	38.5	39.6
95°	71.1	23.3	36.1	44.3	44.3
97.5°	129.4	96.8	37.3	46.6	47.8
100°	197.1	220.4	38.5	47.8	49.0
102.5°	274.0	289.2	86.3	47.8	50.1
105°	347.5	360.3	255.4	49.0	51.3
107.5°	425.6	436.1	453.6	274.0	121.3
110°	503.7	513.1	525.9	487.4	320.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.4	586.5	599.4	609.9	607.5
115°	651.8	658.8	669.3	681.0	685.7
117.5°	724.1	732.3	738.1	747.5	748.6
120°	790.6	801.1	804.6	813.9	813.9
122.5°	858.2	866.4	871.1	876.9	878.1
125°	918.9	928.2	932.9	935.2	937.5
127.5°	979.5	988.8	994.7	998.2	995.8
130°	1035.5	1044.8	1049.5	1054.1	1051.8
132.5°	1089.1	1098.4	1101.9	1106.6	1103.1
135°	1143.9	1150.9	1155.6	1159.1	1155.6
137.5°	1190.6	1199.9	1202.2	1208.1	1205.7
140°	1237.2	1244.2	1247.7	1252.4	1250.0
142.5°	1280.4	1287.3	1290.8	1294.3	1290.8
145°	1320.0	1328.2	1330.5	1332.8	1332.8
147.5°	1358.5	1364.3	1366.6	1369.0	1363.1
150°	1393.5	1397.0	1399.3	1401.6	1398.1
152.5°	1424.9	1426.1	1427.3	1431.9	1426.1
155°	1454.1	1451.8	1452.9	1458.8	1451.8
157.5°	1477.4	1477.4	1476.3	1483.2	1473.9
160°	1498.4	1497.2	1496.1	1503.1	1494.9
162.5°	1518.2	1514.7	1513.6	1521.7	1514.7
165°	1533.4	1529.9	1528.7	1538.1	1529.9
167.5°	1546.2	1541.6	1541.6	1550.9	1541.6
170°	1556.7	1552.0	1552.0	1561.4	1552.0
172.5°	1563.7	1557.9	1559.0	1568.4	1557.9
175°	1569.5	1563.7	1564.9	1573.0	1563.7
177.5°	1571.9	1566.0	1567.2	1576.5	1564.9
180°	1569.5	1569.5	1569.5	1569.5	1569.5

(END OF REPORT)