

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: P1011070

Luminaire Tested: S123DIP-B1000D1195UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011070
REPORT IS A COMBINATION OF REPORTS P989085 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

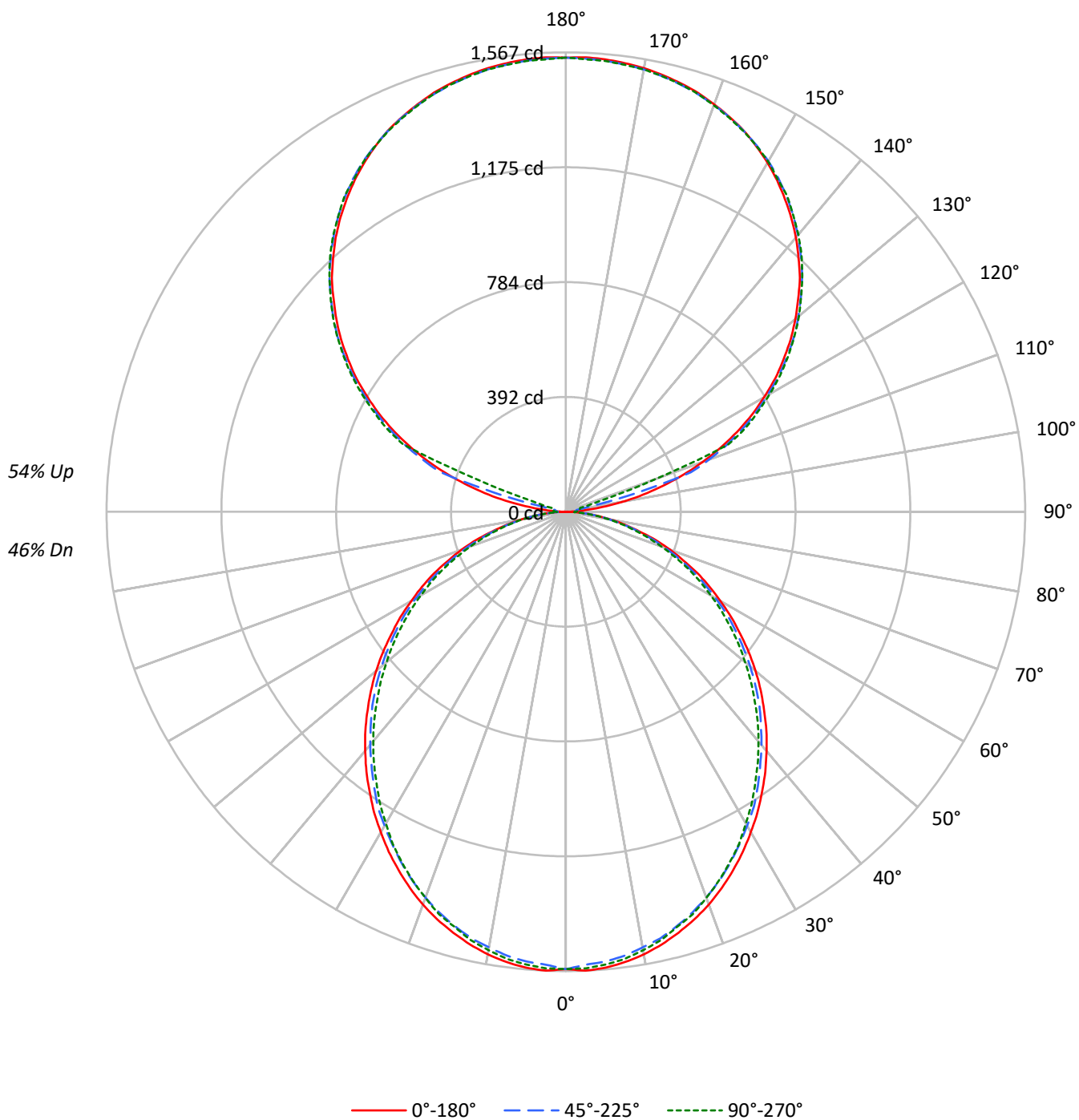
Lumens per Lamp: N/A
Luminaire Lumens: 8786.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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
RCR																	
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	46	45	44
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	41	39	37
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32
4	74	63	55	49	67	58	51	46	49	44	39	40	36	33	32	30	27
5	67	56	48	42	62	52	44	39	44	38	34	36	32	29	29	26	24
6	62	50	42	36	57	46	39	34	39	34	30	33	28	25	26	23	21
7	57	45	37	32	53	42	35	30	36	30	26	30	25	22	24	21	19
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	17
9	50	37	30	25	45	35	28	23	30	24	21	25	21	18	20	17	15
10	46	34	27	22	43	32	25	21	27	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16792	16792	16792
5°	16833	16212	16188
10°	16684	15663	15503
15°	16451	15092	14756
20°	16186	14460	14016
25°	15842	13791	13225
30°	15465	13098	12392
35°	15071	12392	11566
40°	14657	11650	10753
45°	14204	10928	9903
50°	13742	10122	9050
55°	13149	9282	8186
60°	12537	8356	7267
65°	11966	7354	6308
70°	11140	6244	5189
75°	9951	4944	4027
80°	8594	3475	2849
85°	6705	1869	1427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.7
10°-20°	415.3	4.7
20°-30°	613.3	7.0
30°-40°	716.3	8.2
40°-50°	720.1	8.2
50°-60°	632.6	7.2
60°-70°	471.1	5.4
70°-80°	268.1	3.1
80°-90°	79.3	0.9
90°-100°	54.6	0.6
100°-110°	264.1	3.0
110°-120°	647.3	7.4
120°-130°	821.7	9.4
130°-140°	877.8	10.0
140°-150°	820.8	9.3
150°-160°	662.1	7.5
160°-170°	427.3	4.9
170°-180°	147.2	1.7
0°-30°	1175.6	13.4
0°-40°	1891.9	21.5
0°-60°	3244.6	36.9
0°-90°	4063.1	46.2
90°-120°	966.0	11.0
90°-150°	3486.3	39.7
90°-180°	4723.0	53.8
0°-180°	8786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1561	1555	1540	1553	1551	148
15°	1486	1481	1463	1474	1466	419
25°	1349	1341	1324	1325	1321	622
35°	1167	1159	1142	1134	1127	730
45°	956	951	934	918	911	738
55°	726	724	707	692	685	650
65°	495	488	475	464	460	488
75°	262	256	252	246	241	279
85°	70	67	67	64	64	75
90°	1	13	28	32	34	9
95°	70	23	36	44	44	84
105°	343	356	252	48	51	364
115°	643	650	661	672	677	635
125°	907	916	921	923	925	810
135°	1129	1136	1141	1144	1141	869
145°	1303	1311	1313	1316	1316	816
155°	1435	1433	1434	1440	1433	661
165°	1514	1510	1509	1518	1510	428
175°	1549	1544	1545	1553	1544	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.0	1560.0	1560.0	1560.0	1560.0
2.5°	1566.7	1561.3	1546.6	1560.0	1558.7
5°	1561.3	1554.6	1539.9	1553.3	1550.6
7.5°	1549.3	1542.6	1527.8	1539.9	1538.5
10°	1533.2	1526.5	1509.0	1521.1	1518.4
12.5°	1511.7	1506.3	1490.3	1498.3	1497.0
15°	1486.2	1480.9	1463.4	1474.2	1466.1
17.5°	1458.1	1451.4	1433.9	1442.0	1439.3
20°	1425.9	1417.8	1400.4	1405.7	1401.7
22.5°	1389.7	1381.6	1364.2	1368.2	1362.8
25°	1349.4	1341.4	1323.9	1325.3	1321.2
27.5°	1307.8	1299.8	1281.0	1282.3	1278.3
30°	1262.2	1255.5	1236.7	1236.7	1227.3
32.5°	1216.6	1207.2	1193.8	1184.4	1180.4
35°	1167.0	1158.9	1141.5	1133.5	1126.7
37.5°	1117.4	1106.6	1089.2	1079.8	1075.8
40°	1065.0	1057.0	1038.2	1027.5	1022.1
42.5°	1012.7	1003.3	984.6	973.8	968.5
45°	956.4	951.0	933.6	917.5	910.8
47.5°	901.4	893.3	877.3	861.2	855.8
50°	845.1	838.4	820.9	806.2	798.1
52.5°	786.0	782.0	763.2	751.2	743.1
55°	725.7	724.3	706.9	692.1	685.4
57.5°	669.3	664.0	650.6	637.1	629.1
60°	607.6	606.3	590.2	578.1	571.4
62.5°	552.6	548.6	532.5	520.4	516.4
65°	495.0	488.3	474.8	464.1	460.1
67.5°	433.3	427.9	417.2	407.8	402.4
70°	378.3	370.2	362.2	352.8	346.1
72.5°	320.6	315.2	305.8	297.8	295.1
75°	261.6	256.2	252.2	245.5	241.4
77.5°	209.3	206.6	201.2	195.8	195.8
80°	158.3	154.3	151.6	150.2	150.2
82.5°	108.7	108.7	108.7	106.0	104.6
85°	69.8	67.1	67.1	64.4	64.4
87.5°	34.9	30.9	29.5	28.2	28.2
90°	1.2	12.7	27.6	32.2	34.5
92.5°	26.5	19.6	29.9	38.0	39.1
95°	70.2	23.0	35.7	43.7	43.7
97.5°	127.8	95.5	36.8	46.0	47.2
100°	194.5	217.5	38.0	47.2	48.3
102.5°	270.5	285.4	85.2	47.2	49.5
105°	343.0	355.7	252.1	48.3	50.6
107.5°	420.1	430.5	447.7	270.5	119.7
110°	497.2	506.4	519.1	481.1	316.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	570.9	578.9	591.6	602.0	599.7
115°	643.4	650.3	660.7	672.2	676.8
117.5°	714.8	722.8	728.6	737.8	738.9
120°	780.4	790.7	794.2	803.4	803.4
122.5°	847.1	855.2	859.8	865.5	866.7
125°	907.0	916.2	920.8	923.1	925.4
127.5°	966.8	976.0	981.8	985.2	982.9
130°	1022.1	1031.3	1035.9	1040.5	1038.2
132.5°	1075.0	1084.2	1087.7	1092.3	1088.8
135°	1129.1	1136.0	1140.6	1144.1	1140.6
137.5°	1175.1	1184.4	1186.7	1192.4	1190.1
140°	1221.2	1228.1	1231.5	1236.1	1233.8
142.5°	1263.8	1270.7	1274.1	1277.6	1274.1
145°	1302.9	1311.0	1313.3	1315.6	1315.6
147.5°	1340.9	1346.6	1348.9	1351.2	1345.5
150°	1375.4	1378.9	1381.2	1383.5	1380.0
152.5°	1406.5	1407.6	1408.8	1413.4	1407.6
155°	1435.3	1433.0	1434.1	1439.9	1433.0
157.5°	1458.3	1458.3	1457.1	1464.0	1454.8
160°	1479.0	1477.9	1476.7	1483.6	1475.6
162.5°	1498.6	1495.1	1494.0	1502.0	1495.1
165°	1513.5	1510.1	1508.9	1518.1	1510.1
167.5°	1526.2	1521.6	1521.6	1530.8	1521.6
170°	1536.6	1531.9	1531.9	1541.2	1531.9
172.5°	1543.5	1537.7	1538.9	1548.1	1537.7
175°	1549.2	1543.5	1544.6	1552.7	1543.5
177.5°	1551.5	1545.8	1546.9	1556.1	1544.6
180°	1549.2	1549.2	1549.2	1549.2	1549.2

(END OF REPORT)