

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: P1008664

Luminaire Tested: S122DIP-B1005D530UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008664
REPORT IS A COMBINATION OF REPORTS P983686 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB40-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

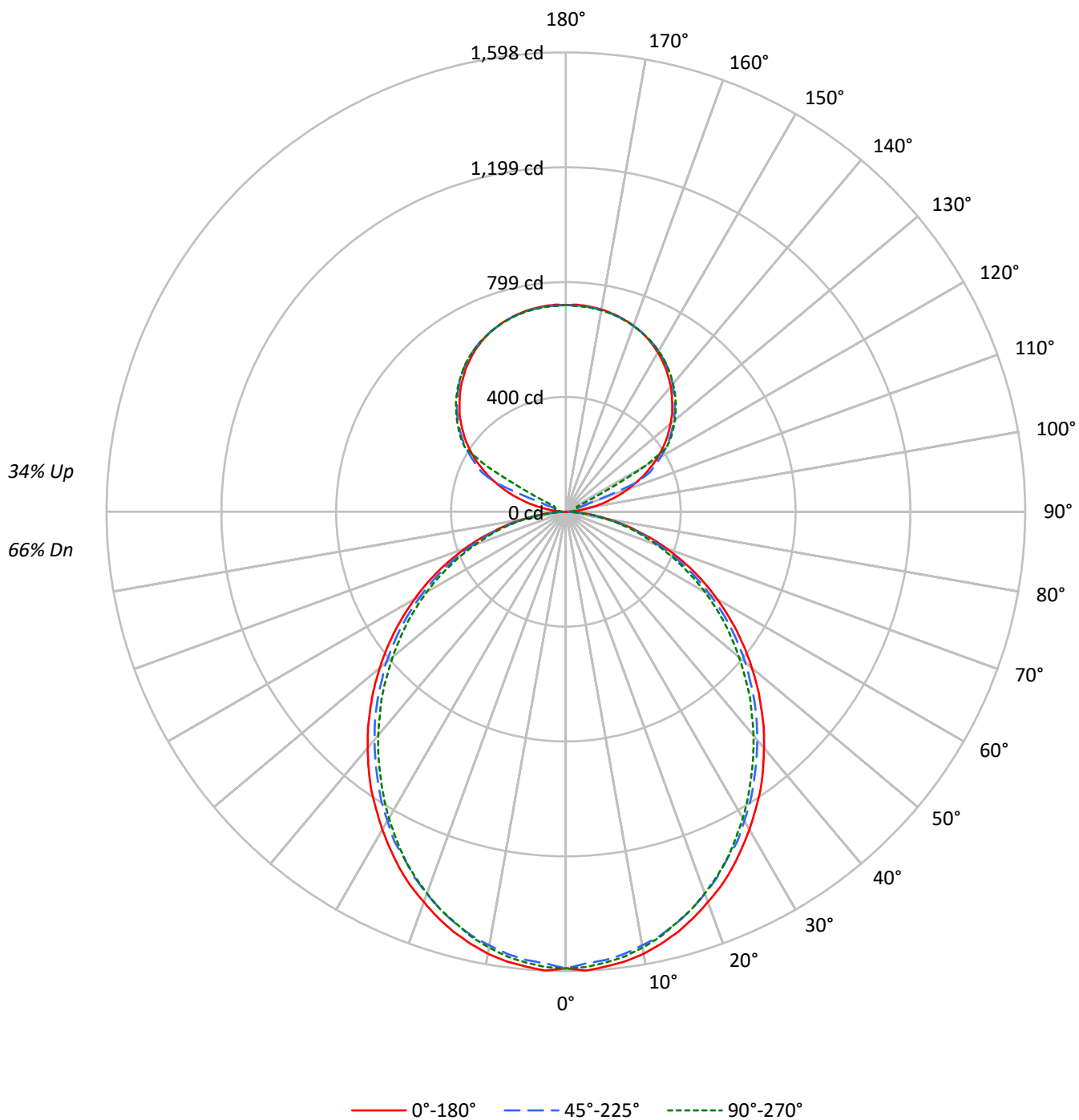
Lumens per Lamp: N/A
Luminaire Lumens: 6149.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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: P1008664

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1008664

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-F

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	101	97	93	89	95	91	88	85	81	78	76	71	69	67	62	61	60
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50
3	84	74	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37
5	71	59	51	44	66	56	48	43	50	44	39	44	39	36	39	35	32
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	28
7	61	48	40	34	57	45	38	33	41	35	30	37	32	28	33	28	25
8	56	44	36	30	53	41	34	29	37	31	27	34	28	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25142	25142	25142
5°	25183	23965	23795
10°	24979	22873	22420
15°	24613	21773	20971
20°	24118	20575	19601
25°	23625	19325	18232
30°	23005	18152	16796
35°	22421	16912	15385
40°	21698	15689	14051
45°	20979	14475	12743
50°	20197	13242	11386
55°	19372	11922	10101
60°	18443	10493	8766
65°	17426	9040	7360
70°	16136	7451	5944
75°	14354	5744	4590
80°	12191	3903	2954
85°	8843	1817	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20979 cd/sqm

TEST NUMBER: P1008664

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.4
10°-20°	420.6	6.8
20°-30°	618.1	10.1
30°-40°	717.9	11.7
40°-50°	717.0	11.7
50°-60°	625.2	10.2
60°-70°	462.2	7.5
70°-80°	261.5	4.3
80°-90°	70.3	1.1
90°-100°	23.7	0.4
100°-110°	88.3	1.4
110°-120°	234.3	3.8
120°-130°	388.6	6.3
130°-140°	412.7	6.7
140°-150°	383.6	6.2
150°-160°	308.4	5.0
160°-170°	198.7	3.2
170°-180°	68.4	1.1
0°-30°	1188.2	19.3
0°-40°	1906.1	31.0
0°-60°	3248.3	52.8
0°-90°	4042.3	65.7
90°-120°	346.3	5.6
90°-150°	1531.2	24.9
90°-180°	2107.0	34.3
0°-180°	6149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1582	1565	1578	1575	151
15°	1512	1503	1483	1489	1481	426
25°	1368	1356	1330	1333	1330	630
35°	1181	1165	1141	1132	1124	737
45°	961	950	927	910	904	741
55°	727	718	700	681	674	650
65°	490	481	466	452	444	485
75°	257	254	246	237	240	274
85°	63	61	60	55	54	70
90°	0	6	10	13	14	6
95°	34	17	20	23	22	40
105°	158	174	32	37	40	169
115°	299	308	321	80	43	294
125°	423	430	439	443	445	377
135°	523	531	536	541	540	404
145°	607	606	615	619	616	380
155°	668	664	670	673	669	308
165°	704	701	702	706	702	199
175°	720	716	718	721	716	69
180°	719	719	719	719	719	

TEST NUMBER: P1008664

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1597.5	1589.9	1573.1	1588.3	1585.3
5°	1588.3	1582.2	1565.4	1577.7	1574.6
7.5°	1577.7	1568.5	1551.7	1563.9	1560.9
10°	1560.9	1550.2	1531.8	1544.1	1539.5
12.5°	1537.9	1528.8	1510.5	1518.1	1515.0
15°	1512.0	1502.8	1483.0	1489.1	1481.4
17.5°	1479.9	1470.7	1450.9	1458.5	1450.9
20°	1444.8	1435.6	1414.2	1418.8	1412.7
22.5°	1409.7	1395.9	1376.1	1376.1	1373.0
25°	1368.4	1356.2	1330.2	1333.3	1330.2
27.5°	1322.6	1311.9	1292.1	1287.5	1279.8
30°	1276.8	1264.6	1241.7	1237.1	1231.0
32.5°	1227.9	1218.7	1194.3	1185.1	1179.0
35°	1180.6	1165.3	1140.9	1131.7	1124.1
37.5°	1127.1	1113.4	1088.9	1078.2	1070.6
40°	1072.1	1059.9	1035.5	1021.7	1015.6
42.5°	1018.7	1006.5	982.0	966.8	957.6
45°	960.6	950.0	927.0	910.2	904.1
47.5°	904.1	893.4	869.0	852.2	843.0
50°	844.6	836.9	815.6	794.2	786.5
52.5°	786.5	775.8	756.0	739.2	728.5
55°	727.0	717.8	699.5	681.2	673.5
57.5°	667.4	659.8	639.9	621.6	615.5
60°	607.8	601.7	580.4	563.6	559.0
62.5°	549.8	539.1	523.8	508.6	502.5
65°	490.2	481.1	465.8	452.1	444.4
67.5°	429.2	421.5	407.8	397.1	391.0
70°	372.6	366.5	352.8	342.1	336.0
72.5°	314.6	308.5	300.9	290.2	285.6
75°	256.6	253.5	245.9	236.7	239.8
77.5°	204.7	198.5	195.5	190.9	186.3
80°	152.7	151.2	148.1	143.6	140.5
82.5°	103.9	103.9	102.3	96.2	96.2
85°	62.6	61.1	59.6	55.0	53.5
87.5°	27.5	24.4	21.4	16.8	15.3
90°	0.5	6.2	10.4	13.0	14.0
92.5°	13.0	10.9	12.5	13.5	14.0
95°	33.8	16.6	20.3	22.9	22.4
97.5°	60.8	18.2	26.5	28.1	28.6
100°	92.0	20.8	29.6	33.8	34.8
102.5°	126.4	125.3	30.7	36.4	38.0
105°	158.1	173.7	31.7	37.4	39.5
107.5°	195.0	208.0	32.8	38.5	40.6
110°	230.4	241.3	91.0	39.0	41.1



TEST NUMBER: P1008664

CATALOG NUMBER: S122DIP-B1005D530UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	263.6	273.0	264.2	40.0	41.6
115°	299.0	307.8	320.8	80.1	42.6
117.5°	329.7	340.1	348.9	274.6	138.3
120°	364.0	371.8	381.1	387.4	317.2
122.5°	393.1	401.4	411.8	414.9	415.5
125°	422.7	429.5	439.4	443.0	444.6
127.5°	449.8	457.1	464.9	470.1	470.6
130°	475.3	483.6	489.3	495.0	494.5
132.5°	501.3	508.0	513.7	518.4	517.9
135°	523.1	531.4	536.1	541.3	540.3
137.5°	546.0	552.2	557.4	562.6	561.1
140°	568.3	572.5	578.2	582.9	580.3
142.5°	587.1	590.7	597.5	601.6	599.0
145°	606.8	606.3	615.1	618.8	616.2
147.5°	624.0	622.4	631.3	633.9	631.8
150°	640.6	637.0	645.3	648.4	645.8
152.5°	654.7	650.5	658.3	661.4	657.8
155°	668.2	663.5	669.7	672.9	668.7
157.5°	679.1	674.9	679.6	683.3	679.1
160°	688.5	685.3	688.5	691.6	687.9
162.5°	696.8	693.7	696.3	699.9	695.2
165°	704.1	700.9	702.5	706.1	702.5
167.5°	709.8	706.7	708.2	711.9	707.2
170°	714.5	711.3	712.4	716.0	711.3
172.5°	717.6	714.5	715.5	719.1	714.5
175°	720.2	716.5	717.6	721.2	716.0
177.5°	721.2	717.6	718.1	721.7	717.1
180°	718.6	718.6	718.6	718.6	718.6

(END OF REPORT)