

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: P1010077

Luminaire Tested: S122RDIP-B485D925UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010077
REPORT IS A COMBINATION OF REPORTS P988397 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D925UB30-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

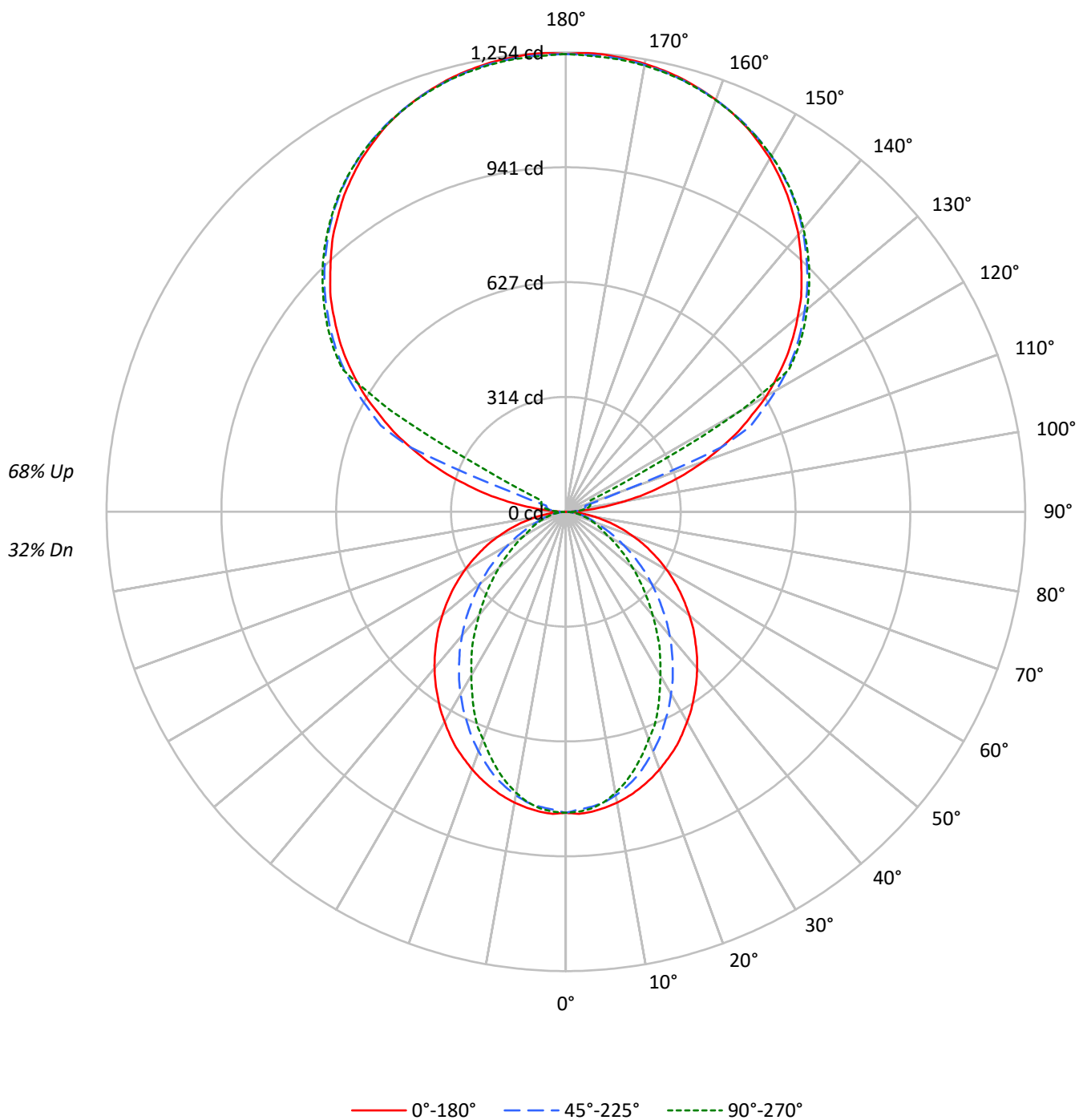
Lumens per Lamp: N/A
Luminaire Lumens: 5355.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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: P1010077

CATALOG NUMBER: S122RDIP-B485D925UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1010077

CATALOG NUMBER: S122RDIP-B485D925UB30-4F0-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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29
3	78	69	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25
4	72	62	54	48	64	56	49	44	45	40	37	35	32	29	25	23	22
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	23	21	19
6	61	49	42	36	55	45	38	33	36	31	28	28	25	22	21	19	17
7	56	44	37	32	50	40	34	29	33	28	24	26	22	20	19	17	15
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14
9	48	37	30	25	44	34	27	23	27	23	19	22	18	16	16	14	12
10	45	34	27	22	41	31	25	21	25	21	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13007	13007	13007
5°	13028	12374	12283
10°	12900	11736	11349
15°	12723	10983	10285
20°	12488	10128	9173
25°	12247	9249	8154
30°	11924	8392	7042
35°	11610	7529	6086
40°	11287	6682	5104
45°	10913	5806	4245
50°	10527	4962	3456
55°	10126	4119	2743
60°	9659	3294	2076
65°	9122	2511	1688
70°	8471	1823	1343
75°	7653	1390	1024
80°	6475	941	687
85°	4520	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10913 cd/sqm

TEST NUMBER: P1010077

CATALOG NUMBER: S122RDIP-B485D925UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.4
10°-20°	211.4	3.9
20°-30°	296.8	5.5
30°-40°	323.6	6.0
40°-50°	297.4	5.6
50°-60°	233.5	4.4
60°-70°	152.0	2.8
70°-80°	78.3	1.5
80°-90°	22.2	0.4
90°-100°	41.2	0.8
100°-110°	153.6	2.9
110°-120°	407.3	7.6
120°-130°	675.6	12.6
130°-140°	717.6	13.4
140°-150°	666.9	12.5
150°-160°	536.2	10.0
160°-170°	345.5	6.5
170°-180°	118.9	2.2
0°-30°	585.3	10.9
0°-40°	908.8	17.0
0°-60°	1439.7	26.9
0°-90°	1692.2	31.6
90°-120°	602.1	11.2
90°-150°	2662.2	49.7
90°-180°	3663.0	68.4
0°-180°	5355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	822	818	808	815	813	78
15°	782	773	748	734	726	220
25°	709	686	637	606	595	326
35°	611	573	508	461	445	383
45°	500	450	372	319	301	386
55°	380	322	242	197	183	340
65°	257	196	129	104	102	254
75°	137	85	60	54	54	145
85°	32	16	14	14	14	37
90°	1	11	18	23	24	5
95°	59	29	35	40	39	70
105°	275	302	55	65	69	294
115°	520	535	558	139	74	512
125°	735	747	764	770	773	656
135°	910	924	932	941	939	703
145°	1055	1054	1070	1076	1071	660
155°	1162	1154	1164	1170	1163	535
165°	1224	1219	1221	1228	1221	346
175°	1252	1246	1248	1254	1245	119
180°	1249	1249	1249	1249	1249	

TEST NUMBER: P1010077

CATALOG NUMBER: S122RDIP-B485D925UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.7	821.7	821.7	821.7	821.7
2.5°	825.5	821.7	813.6	821.0	819.5
5°	821.7	818.0	808.3	815.0	812.8
7.5°	815.0	810.6	800.2	803.1	799.4
10°	806.1	800.9	786.0	783.8	779.3
12.5°	795.0	788.3	768.2	763.7	755.5
15°	781.6	773.4	748.1	734.0	726.5
17.5°	766.0	754.1	722.8	706.5	694.6
20°	748.1	733.2	696.1	677.5	661.1
22.5°	728.8	711.7	668.5	643.3	632.1
25°	709.4	685.6	636.6	606.1	594.9
27.5°	686.4	661.1	606.8	571.9	554.8
30°	661.8	633.6	574.1	536.2	516.1
32.5°	638.1	603.8	542.9	498.2	479.7
35°	611.3	573.4	507.9	461.1	444.7
37.5°	585.3	544.4	475.2	423.9	405.3
40°	557.7	513.1	441.0	388.2	368.9
42.5°	529.5	481.9	406.8	351.7	333.2
45°	499.7	449.9	371.8	319.0	301.2
47.5°	471.5	418.7	338.4	285.6	269.2
50°	440.2	387.4	305.6	254.3	238.7
52.5°	409.8	354.0	274.4	225.3	211.2
55°	380.0	322.0	241.7	197.1	182.9
57.5°	349.5	290.0	212.7	171.0	159.1
60°	318.3	258.8	182.2	144.3	132.4
62.5°	287.8	228.3	156.2	120.5	114.5
65°	256.6	196.3	129.4	104.1	101.9
67.5°	226.8	166.6	104.1	91.5	89.2
70°	195.6	137.6	86.3	78.8	75.9
72.5°	165.8	110.8	72.1	66.2	64.7
75°	136.8	84.8	59.5	54.3	53.5
77.5°	107.8	60.2	46.8	43.9	42.4
80°	81.1	43.1	35.7	32.7	32.7
82.5°	56.5	29.0	24.5	23.1	23.1
85°	32.0	16.4	14.1	14.1	14.1
87.5°	11.9	5.9	5.9	5.2	5.2
90°	0.9	10.8	18.1	22.6	24.4
92.5°	22.6	19.0	21.7	23.5	24.4
95°	58.8	28.9	35.3	39.8	38.9
97.5°	105.8	31.6	46.1	48.8	49.7
100°	160.0	36.2	51.5	58.8	60.6
102.5°	219.7	217.9	53.3	63.3	66.0
105°	274.8	302.0	55.1	65.1	68.7
107.5°	339.0	361.6	57.0	66.9	70.5
110°	400.5	419.5	158.2	67.8	71.4

TEST NUMBER: P1010077

CATALOG NUMBER: S122RDIP-B485D925UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.4	474.6	459.3	69.6	72.3
115°	519.8	535.2	557.8	139.2	74.1
117.5°	573.2	591.2	606.6	477.3	240.5
120°	632.8	646.4	662.7	673.5	551.5
122.5°	683.5	697.9	716.0	721.4	722.3
125°	735.0	746.7	763.9	770.3	773.0
127.5°	782.0	794.7	808.2	817.3	818.2
130°	826.3	840.8	850.7	860.7	859.8
132.5°	871.5	883.3	893.2	901.3	900.4
135°	909.5	923.9	932.1	941.1	939.3
137.5°	949.3	960.1	969.1	978.2	975.5
140°	988.1	995.4	1005.3	1013.4	1008.9
142.5°	1020.7	1027.0	1038.8	1046.0	1041.5
145°	1055.0	1054.1	1069.5	1075.8	1071.3
147.5°	1084.9	1082.2	1097.5	1102.0	1098.4
150°	1113.8	1107.5	1121.9	1127.4	1122.8
152.5°	1138.2	1131.0	1144.5	1150.0	1143.6
155°	1161.7	1153.6	1164.4	1169.8	1162.6
157.5°	1180.7	1173.5	1181.6	1187.9	1180.7
160°	1197.0	1191.5	1197.0	1202.4	1196.1
162.5°	1211.4	1206.0	1210.5	1216.9	1208.7
165°	1224.1	1218.7	1221.4	1227.7	1221.4
167.5°	1234.0	1228.6	1231.3	1237.6	1229.5
170°	1242.2	1236.7	1238.6	1244.9	1236.7
172.5°	1247.6	1242.2	1244.0	1250.3	1242.2
175°	1252.1	1245.8	1247.6	1253.9	1244.9
177.5°	1253.9	1247.6	1248.5	1254.8	1246.7
180°	1249.4	1249.4	1249.4	1249.4	1249.4

(END OF REPORT)