

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: P1009178

Luminaire Tested: S122DIP-B485D925UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009178
REPORT IS A COMBINATION OF REPORTS P984386 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

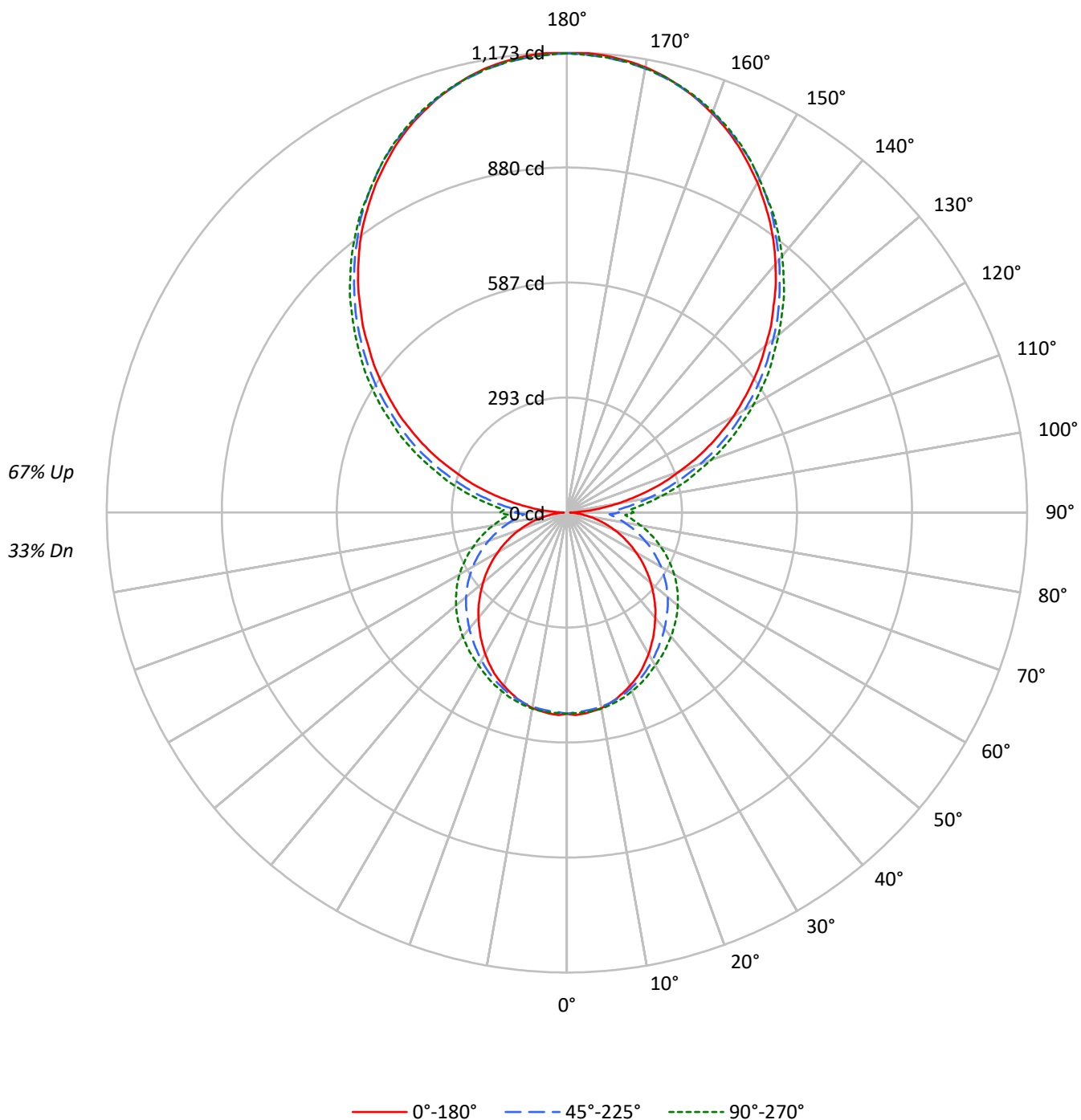
Lumens per Lamp: N/A
Luminaire Lumens: 5235.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1009178

CATALOG NUMBER: S122DIP-B485D925UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1009178

CATALOG NUMBER: S122DIP-B485D925UB30-4F0-XX-W2A-D1

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	93	93	93	93	74	74	74	57	57	57	41	41	41
1	93	88	84	80	84	80	76	73	63	61	59	48	47	45	34	33	32
2	84	77	70	65	76	69	64	59	55	51	48	42	39	37	30	28	26
3	77	67	59	53	69	60	54	49	48	43	40	37	33	31	26	24	22
4	70	59	51	45	62	53	46	41	42	37	33	32	29	26	23	21	19
5	64	52	44	38	57	47	40	35	38	32	28	29	25	22	21	18	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14
7	54	42	34	28	49	38	31	26	30	25	21	23	20	17	17	14	12
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11
9	47	34	27	22	42	31	25	20	25	20	17	20	16	13	14	12	10
10	43	31	24	20	39	29	22	18	23	18	15	18	14	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

TEST NUMBER: P1009178

CATALOG NUMBER: S122DIP-B485D925UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.9
10°-20°	139.5	2.7
20°-30°	211.4	4.0
30°-40°	257.4	4.9
40°-50°	277.0	5.3
50°-60°	269.0	5.1
60°-70°	234.9	4.5
70°-80°	180.8	3.5
80°-90°	124.4	2.4
90°-100°	156.0	3.0
100°-110°	291.3	5.6
110°-120°	434.3	8.3
120°-130°	540.6	10.3
130°-140°	591.1	11.3
140°-150°	572.0	10.9
150°-160°	478.5	9.1
160°-170°	317.3	6.1
170°-180°	110.9	2.1
0°-30°	399.6	7.6
0°-40°	657.0	12.5
0°-60°	1202.9	23.0
0°-90°	1743.0	33.3
90°-120°	881.6	16.8
90°-150°	2585.3	49.4
90°-180°	3492.0	66.7
0°-180°	5235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	63	133	160	170	8
95°	57	102	149	177	184	62
105°	216	241	281	309	318	229
115°	398	412	444	465	470	394
125°	577	586	606	623	629	516
135°	745	756	765	780	783	576
145°	903	910	916	922	921	564
155°	1033	1036	1038	1044	1040	475
165°	1124	1122	1122	1129	1124	317
175°	1169	1166	1164	1171	1165	111
180°	1171	1171	1171	1171	1171	

TEST NUMBER: P1009178

CATALOG NUMBER: S122DIP-B485D925UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.4	63.4	132.8	160.5	170.4
92.5°	28.4	75.7	122.1	152.1	161.0
95°	57.3	102.2	148.7	177.0	184.0
97.5°	91.2	132.1	179.1	206.6	215.6
100°	130.7	166.1	210.8	238.3	245.5
102.5°	171.5	201.9	246.1	273.8	281.0
105°	216.1	240.7	281.4	309.4	317.6
107.5°	261.6	283.5	320.7	346.8	350.1
110°	304.4	325.1	361.6	385.4	390.6

TEST NUMBER: P1009178

CATALOG NUMBER: S122DIP-B485D925UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	351.8	369.6	402.8	423.7	429.9
115°	398.2	412.4	443.8	465.1	470.3
117.5°	443.9	457.8	484.1	503.4	507.9
120°	490.3	501.2	523.1	543.9	549.2
122.5°	532.8	543.5	566.1	583.2	587.9
125°	576.6	585.5	606.3	623.4	629.2
127.5°	620.1	630.1	646.3	660.9	664.7
130°	660.6	672.6	686.3	702.2	704.2
132.5°	706.0	715.1	727.3	739.5	742.5
135°	744.8	755.6	765.1	779.7	782.6
137.5°	788.2	797.1	802.9	816.0	817.3
140°	826.8	835.0	841.4	853.3	853.7
142.5°	866.3	874.5	877.4	887.3	887.1
145°	903.1	910.1	916.0	921.5	921.2
147.5°	936.7	945.6	949.6	952.3	950.6
150°	971.3	977.2	981.2	984.2	981.2
152.5°	1002.0	1007.9	1012.8	1016.8	1012.8
155°	1032.6	1035.5	1038.5	1043.5	1040.5
157.5°	1059.3	1061.2	1063.2	1070.1	1065.2
160°	1083.0	1085.0	1085.9	1091.9	1087.9
162.5°	1104.7	1104.7	1105.7	1112.6	1107.7
165°	1123.5	1122.5	1122.5	1129.4	1124.5
167.5°	1140.3	1137.3	1137.3	1144.2	1139.3
170°	1153.1	1150.2	1149.2	1156.1	1150.2
172.5°	1162.0	1159.1	1158.1	1165.0	1159.1
175°	1168.9	1166.0	1164.0	1170.9	1165.0
177.5°	1172.9	1169.9	1168.0	1173.9	1168.0
180°	1170.9	1170.9	1170.9	1170.9	1170.9

(END OF REPORT)