

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: P1009080

Luminaire Tested: S122DIP-B485D530UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009080
REPORT IS A COMBINATION OF REPORTS P984243 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

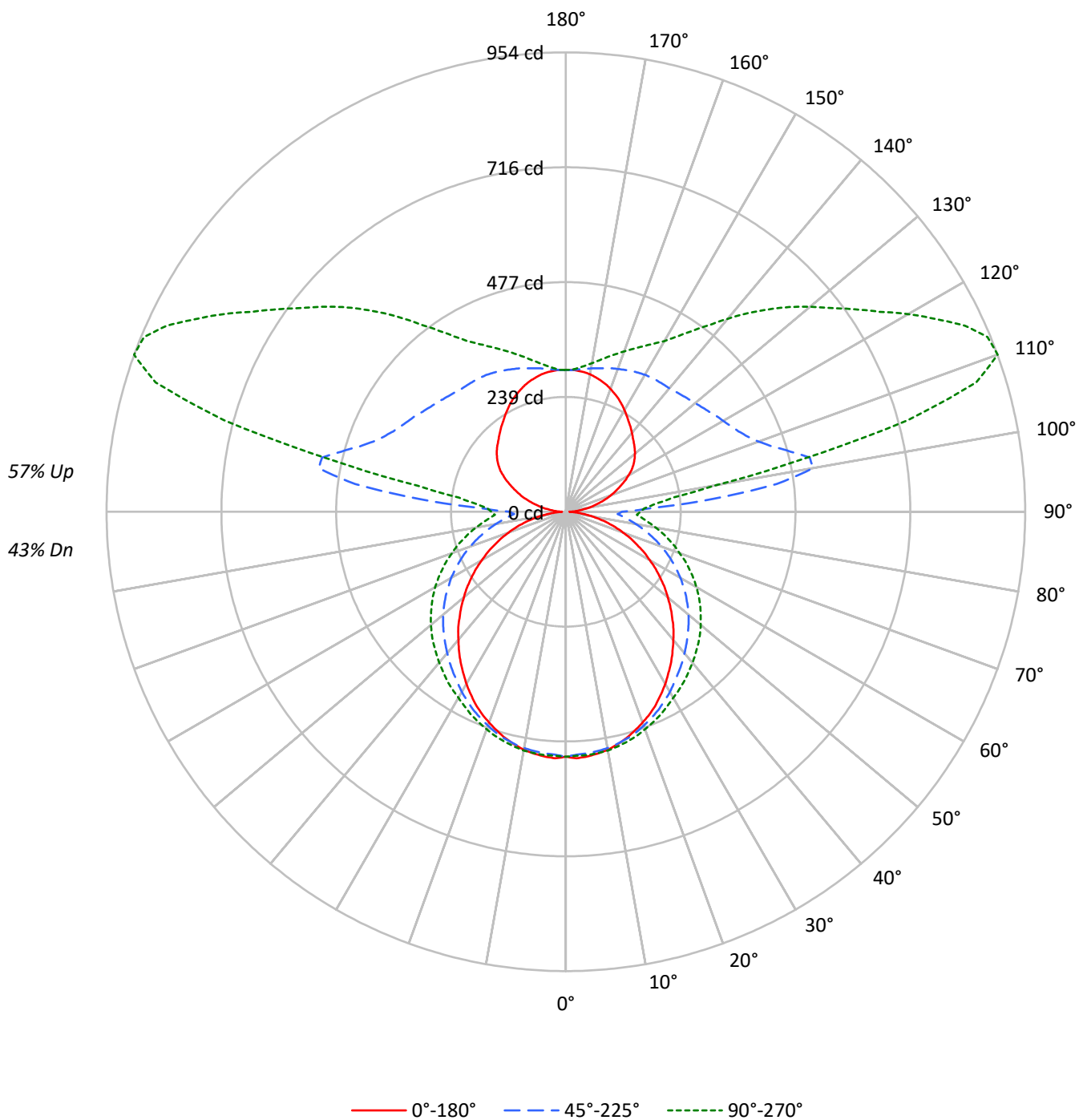
Lumens per Lamp: N/A
Luminaire Lumens: 3996.3 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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: P1009080

CATALOG NUMBER: S122DIP-B485D530UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1009080

CATALOG NUMBER: S122DIP-B485D530UB27-4F0-XX-W2A-D4

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	96	96	96	96	80	80	80	64	64	64	50	50	50
1	95	90	86	82	86	82	79	75	68	65	63	54	52	51	42	41	40
2	86	78	71	66	78	71	65	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20
6	60	47	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	21	17	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6827 cd/sqm

TEST NUMBER: P1009080

CATALOG NUMBER: S122DIP-B485D530UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.2
10°-20°	138.3	3.5
20°-30°	209.6	5.2
30°-40°	255.2	6.4
40°-50°	274.6	6.9
50°-60°	266.6	6.7
60°-70°	232.9	5.8
70°-80°	179.2	4.5
80°-90°	121.9	3.1
90°-100°	202.2	5.1
100°-110°	464.1	11.6
110°-120°	464.2	11.6
120°-130°	371.1	9.3
130°-140°	289.7	7.2
140°-150°	213.4	5.3
150°-160°	148.9	3.7
160°-170°	87.7	2.2
170°-180°	28.5	0.7
0°-30°	396.1	9.9
0°-40°	651.3	16.3
0°-60°	1192.5	29.8
0°-90°	1726.5	43.2
90°-120°	1130.5	28.3
90°-150°	2004.7	50.2
90°-180°	2270.0	56.8
0°-180°	3996.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	8	58	117	145	154	6
95°	26	89	307	197	186	25
105°	73	129	483	839	736	78
115°	125	165	395	791	914	123
125°	171	203	363	632	733	153
135°	200	239	342	517	594	155
145°	228	262	332	416	459	143
155°	259	280	322	364	379	119
165°	282	291	309	327	332	80
175°	294	294	297	300	300	28
180°	294	294	294	294	294	

TEST NUMBER: P1009080

CATALOG NUMBER: S122DIP-B485D530UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	8.0	57.8	116.6	145.2	154.4
92.5°	15.1	72.6	177.9	159.6	162.9
95°	25.7	89.2	306.8	196.6	186.2
97.5°	34.7	101.2	441.5	275.1	223.9
100°	48.8	111.2	521.2	436.0	311.9
102.5°	61.0	120.6	518.9	661.5	498.5
105°	72.8	129.3	483.1	839.4	735.6
107.5°	86.4	138.0	449.6	900.0	893.4
110°	99.2	147.1	425.9	883.4	954.4

TEST NUMBER: P1009080

CATALOG NUMBER: S122DIP-B485D530UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	111.6	156.3	408.4	841.6	948.1
115°	124.7	164.8	395.4	791.1	914.5
117.5°	137.6	174.0	385.7	743.2	866.7
120°	150.0	183.0	377.4	699.0	821.2
122.5°	161.9	192.9	370.6	664.1	772.7
125°	171.4	202.6	362.7	632.0	733.0
127.5°	179.9	212.2	356.5	603.2	694.8
130°	187.3	221.6	350.9	574.8	662.3
132.5°	194.1	230.6	346.0	545.6	629.4
135°	200.1	238.6	341.7	517.0	594.2
137.5°	206.3	245.4	338.0	487.9	559.4
140°	213.7	251.0	334.5	461.9	523.5
142.5°	221.0	256.0	333.0	437.3	488.3
145°	227.7	261.6	331.9	416.4	459.0
147.5°	235.6	266.2	330.2	398.3	431.7
150°	243.6	270.7	328.5	385.2	409.5
152.5°	251.5	275.2	325.7	374.6	393.1
155°	258.8	279.6	322.3	364.5	378.9
157.5°	265.1	282.9	318.9	354.8	366.5
160°	271.3	286.3	315.5	345.2	354.6
162.5°	277.5	288.8	312.7	336.2	343.2
165°	282.1	290.6	308.7	327.4	332.5
167.5°	286.0	292.2	305.3	319.5	322.3
170°	290.0	293.2	302.5	312.1	313.2
172.5°	292.3	294.0	299.1	305.6	305.9
175°	294.0	294.2	296.8	300.5	299.6
177.5°	295.1	294.5	294.5	296.8	295.1
180°	294.5	294.5	294.5	294.5	294.5

(END OF REPORT)