

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: P1009033

Luminaire Tested: S122DIP-B485D330UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009033
REPORT IS A COMBINATION OF REPORTS P984181 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D330UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

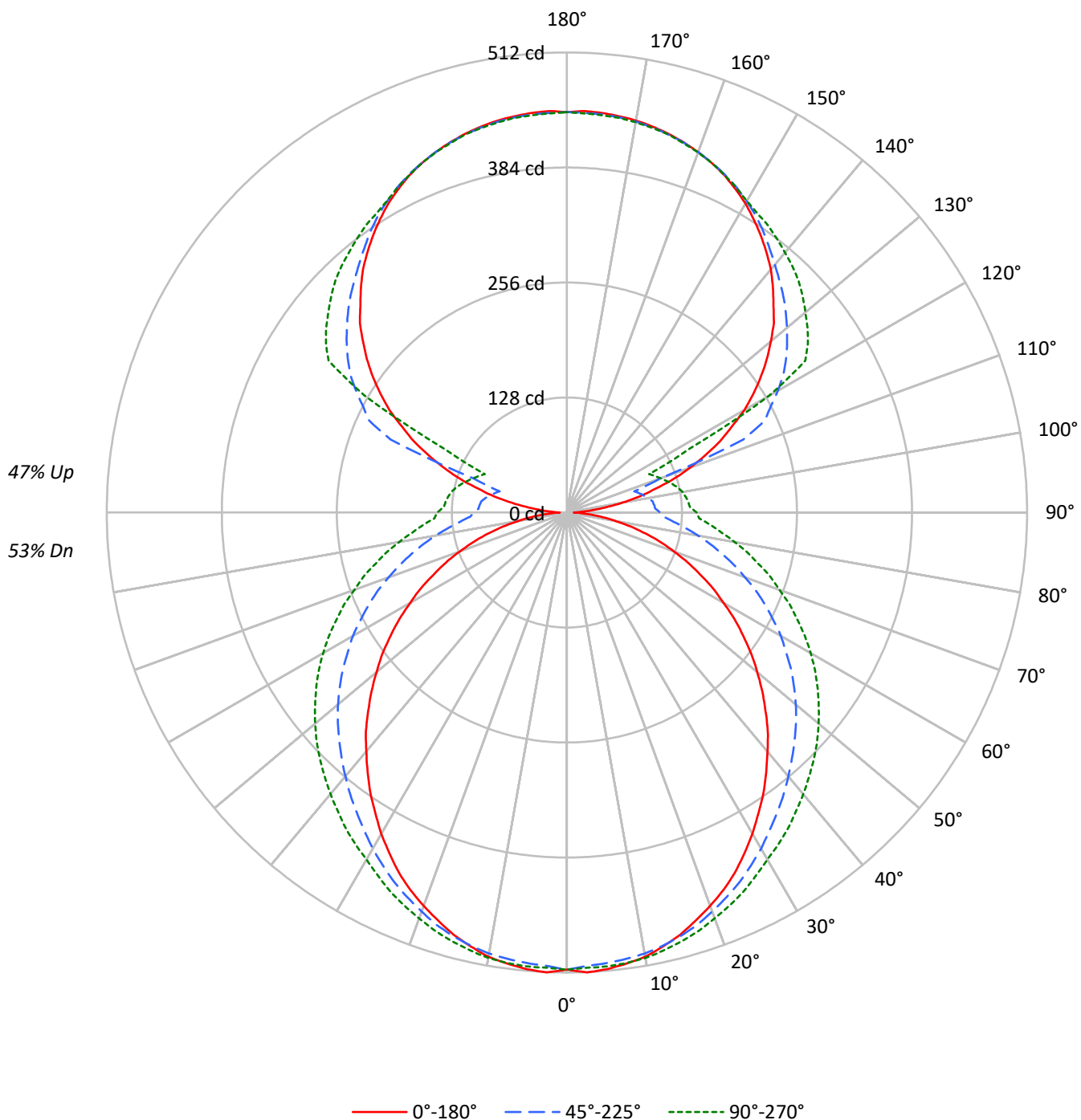
Lumens per Lamp: N/A
Luminaire Lumens: 3248.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 33.3
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: P1009033

CATALOG NUMBER: S122DIP-B485D330UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1009033

CATALOG NUMBER: S122DIP-B485D330UB27-4F0-XX-W2A-D

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	97	92	87	83	89	85	81	78	72	69	67	60	58	56	50	48	47
2	88	79	72	67	81	73	67	62	62	58	54	52	49	46	43	40	38
3	80	69	61	55	73	64	57	51	54	49	45	46	41	38	37	34	32
4	73	61	52	46	67	56	49	43	48	42	38	40	36	32	33	30	27
5	66	54	45	39	61	50	42	37	43	37	32	36	31	28	30	26	23
6	61	48	40	34	56	45	37	32	38	32	28	32	28	24	27	23	20
7	56	44	35	29	52	41	33	28	35	29	24	29	25	21	24	21	18
8	52	39	31	26	48	37	29	24	32	26	22	27	22	19	22	19	16
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	14
10	45	33	25	21	42	31	24	19	27	21	17	23	18	15	19	15	13

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: P1009033

CATALOG NUMBER: S122DIP-B485D330UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.5
10°-20°	138.3	4.3
20°-30°	209.6	6.5
30°-40°	255.2	7.9
40°-50°	274.6	8.5
50°-60°	266.6	8.2
60°-70°	232.9	7.2
70°-80°	179.2	5.5
80°-90°	120.8	3.7
90°-100°	97.5	3.0
100°-110°	115.3	3.5
110°-120°	185.2	5.7
120°-130°	263.2	8.1
130°-140°	265.2	8.2
140°-150°	239.4	7.4
150°-160°	191.2	5.9
160°-170°	123.2	3.8
170°-180°	42.4	1.3
0°-30°	396.1	12.2
0°-40°	651.3	20.1
0°-60°	1192.5	36.7
0°-90°	1725.4	53.1
90°-120°	397.9	12.3
90°-150°	1165.7	35.9
90°-180°	1523.0	46.9
0°-180°	3248.0	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	54	104	135	144	6
95°	27	51	97	127	136	29
105°	102	133	83	112	122	109
115°	188	202	243	116	101	185
125°	264	268	298	320	327	235
135°	325	330	340	359	364	251
145°	376	376	381	388	390	235
155°	414	411	415	417	415	191
165°	436	435	436	438	436	123
175°	446	444	445	447	444	42
180°	446	446	446	446	446	

TEST NUMBER: P1009033

CATALOG NUMBER: S122DIP-B485D330UB27-4F0-XX-W2A-D

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°	7.7	54.0	103.7	134.9	144.4
92.5°	14.7	52.5	98.4	127.8	137.0
95°	26.9	50.8	97.4	127.0	135.5
97.5°	42.9	48.2	96.0	124.3	133.4
100°	62.3	45.3	92.1	122.0	130.7
102.5°	82.7	106.5	87.6	117.7	126.7
105°	101.7	132.8	83.1	112.4	121.8
107.5°	124.6	150.4	78.5	107.2	116.5
110°	145.7	167.3	110.2	101.6	111.0

TEST NUMBER: P1009033

CATALOG NUMBER: S122DIP-B485D330UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	166.4	184.0	212.5	97.0	106.2
115°	188.3	202.0	243.1	116.0	100.9
117.5°	206.6	218.9	255.4	231.4	154.4
120°	227.9	235.7	271.0	295.5	260.1
122.5°	245.9	251.8	285.5	307.4	314.4
125°	263.6	267.8	297.5	319.7	327.3
127.5°	280.4	284.1	308.8	330.5	337.5
130°	296.2	300.5	319.6	340.8	346.4
132.5°	312.3	315.7	330.3	350.2	355.8
135°	325.0	330.2	340.5	359.2	364.5
137.5°	339.2	343.1	350.0	367.2	371.5
140°	353.1	355.0	360.0	374.7	377.5
142.5°	364.7	366.2	370.4	381.8	383.9
145°	376.2	375.9	381.4	388.1	390.1
147.5°	386.9	385.9	391.4	393.7	394.6
150°	397.2	394.9	400.1	402.0	400.4
152.5°	405.9	403.3	408.2	410.1	407.8
155°	414.3	411.4	415.3	417.2	414.6
157.5°	421.1	418.5	421.4	423.6	421.1
160°	426.9	424.9	426.9	428.8	426.5
162.5°	432.0	430.1	431.7	434.0	431.0
165°	436.5	434.6	435.6	437.8	435.6
167.5°	440.1	438.1	439.1	441.4	438.5
170°	443.0	441.0	441.7	443.9	441.0
172.5°	444.9	443.0	443.6	445.9	443.0
175°	446.5	444.3	444.9	447.2	443.9
177.5°	447.2	444.9	445.2	447.5	444.6
180°	445.6	445.6	445.6	445.6	445.6

(END OF REPORT)