

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: P1008091

Luminaire Tested: S122DIP-B485D330UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008091
REPORT IS A COMBINATION OF REPORTS P984194 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D330UB2750-4F0-XX-W2A-D_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

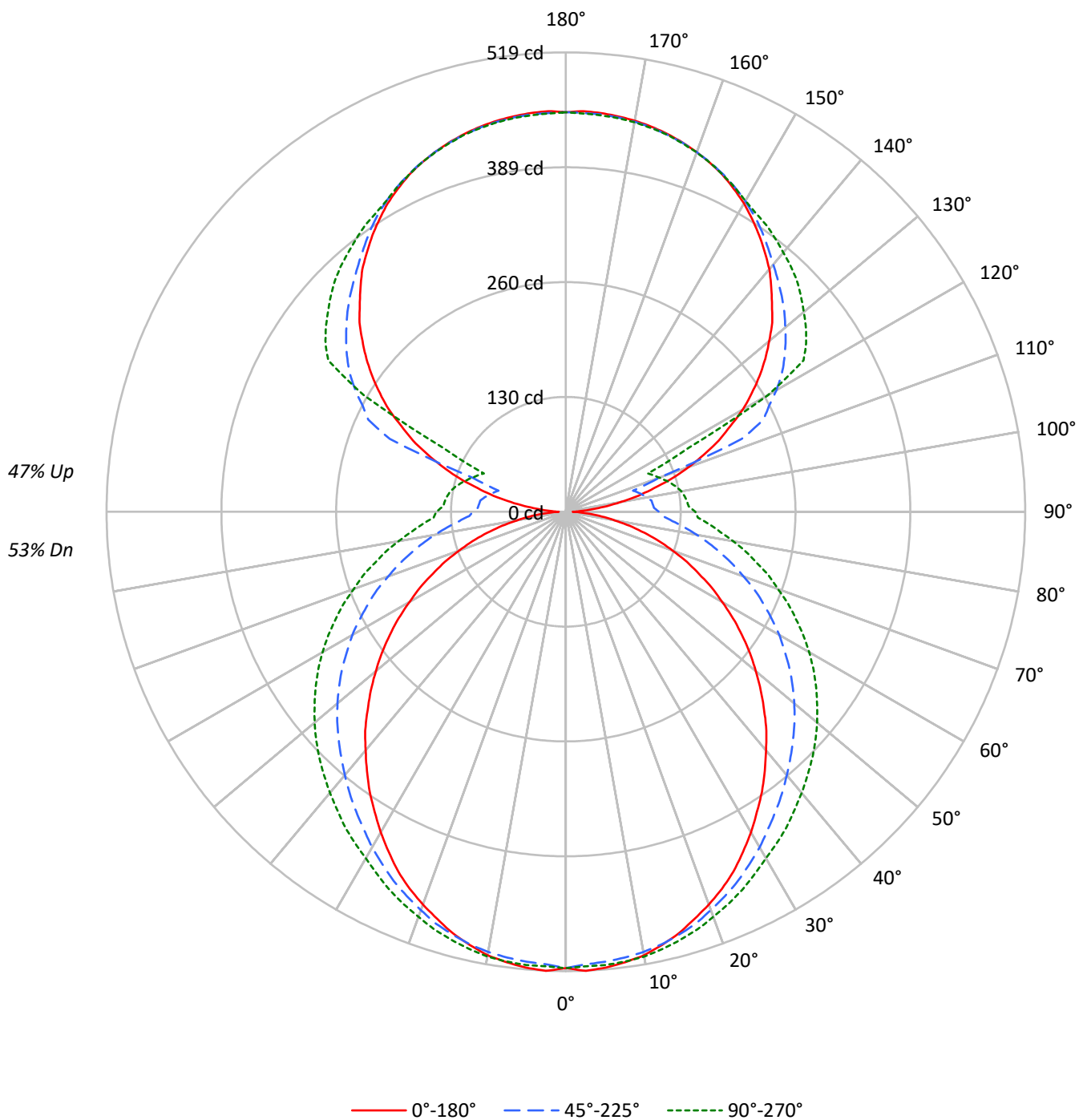
Lumens per Lamp: N/A
Luminaire Lumens: 3291.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1008091

CATALOG NUMBER: S122DIP-B485D330UB2750-4F0-XX-W2A-D_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1008091

CATALOG NUMBER: S122DIP-B485D330UB2750-4F0-XX-W2A-D_3500K

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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		71	71	71		59
1	97	92	87	83	89	85	81	78	72	69	67		60	58	56		50
2	88	79	72	67	81	73	67	62	62	58	54		52	49	46		43
3	80	69	61	55	73	64	57	51	54	49	45		46	41	38		37
4	73	61	52	46	67	56	49	43	48	42	38		40	36	32		33
5	66	54	45	39	61	50	42	37	43	37	32		36	31	28		30
6	61	48	40	34	56	45	37	32	38	32	28		32	28	24		27
7	56	44	35	29	52	41	33	28	35	29	24		29	25	21		24
8	52	39	31	26	48	37	29	24	32	26	22		27	22	19		22
9	49	36	28	23	45	34	27	22	29	23	19		25	20	17		21
10	45	33	25	21	42	31	24	19	27	21	17		23	18	15		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6919 cd/sqm

TEST NUMBER: P1008091

CATALOG NUMBER: S122DIP-B485D330UB2750-4F0-XX-W2A-D_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.5
10°-20°	140.2	4.3
20°-30°	212.4	6.5
30°-40°	258.6	7.9
40°-50°	278.2	8.5
50°-60°	270.2	8.2
60°-70°	236.0	7.2
70°-80°	181.6	5.5
80°-90°	122.4	3.7
90°-100°	98.8	3.0
100°-110°	116.8	3.5
110°-120°	187.6	5.7
120°-130°	266.6	8.1
130°-140°	268.7	8.2
140°-150°	242.5	7.4
150°-160°	193.7	5.9
160°-170°	124.8	3.8
170°-180°	43.0	1.3
0°-30°	401.4	12.2
0°-40°	660.0	20.1
0°-60°	1208.5	36.7
0°-90°	1748.5	53.1
90°-120°	403.2	12.3
90°-150°	1181.0	35.9
90°-180°	1542.0	46.9
0°-180°	3291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	8	55	105	137	146	6
95°	27	52	99	129	137	30
105°	103	134	84	114	123	110
115°	191	204	246	118	102	188
125°	267	271	301	324	332	238
135°	329	334	345	364	369	255
145°	381	381	386	393	395	239
155°	420	417	421	423	420	193
165°	442	440	441	444	441	125
175°	452	450	451	453	450	43
180°	451	451	451	451	451	

TEST NUMBER: P1008091

CATALOG NUMBER: S122DIP-B485D330UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	7.8	54.7	105.1	136.7	146.3
92.5°	14.9	53.2	99.7	129.5	138.8
95°	27.2	51.6	98.6	128.7	137.3
97.5°	43.4	48.8	97.4	125.9	135.3
100°	63.0	46.0	93.3	123.6	132.5
102.5°	83.9	107.8	88.8	119.3	128.4
105°	103.0	134.5	84.2	113.9	123.4
107.5°	126.2	152.3	79.6	108.6	118.1
110°	147.7	169.4	111.7	102.9	112.5

TEST NUMBER: P1008091

CATALOG NUMBER: S122DIP-B485D330UB2750-4F0-XX-W2A-D_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	186.4	215.2	98.3	107.5
115°	190.8	204.5	246.3	117.5	102.3
117.5°	209.3	221.8	258.7	234.4	156.4
120°	230.8	238.7	274.5	299.3	263.5
122.5°	249.1	255.1	289.3	311.4	318.4
125°	267.0	271.3	301.4	323.9	331.5
127.5°	284.0	287.8	312.9	334.8	341.9
130°	300.0	304.4	323.7	345.3	350.9
132.5°	316.3	319.8	334.7	354.7	360.4
135°	329.3	334.5	344.9	363.9	369.2
137.5°	343.6	347.5	354.6	372.1	376.3
140°	357.7	359.6	364.7	379.5	382.4
142.5°	369.4	371.0	375.3	386.9	388.9
145°	381.1	380.8	386.4	393.1	395.2
147.5°	391.9	390.9	396.5	398.8	399.8
150°	402.4	400.1	405.3	407.3	405.6
152.5°	411.2	408.6	413.5	415.4	413.1
155°	419.7	416.7	420.7	422.6	420.0
157.5°	426.5	423.9	426.9	429.1	426.5
160°	432.4	430.5	432.4	434.4	432.1
162.5°	437.6	435.7	437.3	439.6	436.7
165°	442.2	440.2	441.2	443.5	441.2
167.5°	445.8	443.8	444.8	447.1	444.2
170°	448.7	446.8	447.4	449.7	446.8
172.5°	450.7	448.7	449.4	451.7	448.7
175°	452.3	450.0	450.7	453.0	449.7
177.5°	453.0	450.7	451.0	453.3	450.4
180°	451.4	451.4	451.4	451.4	451.4

(END OF REPORT)