

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: P1009107

Luminaire Tested: S122DIP-B485D530UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009107
REPORT IS A COMBINATION OF REPORTS P984285 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB40-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

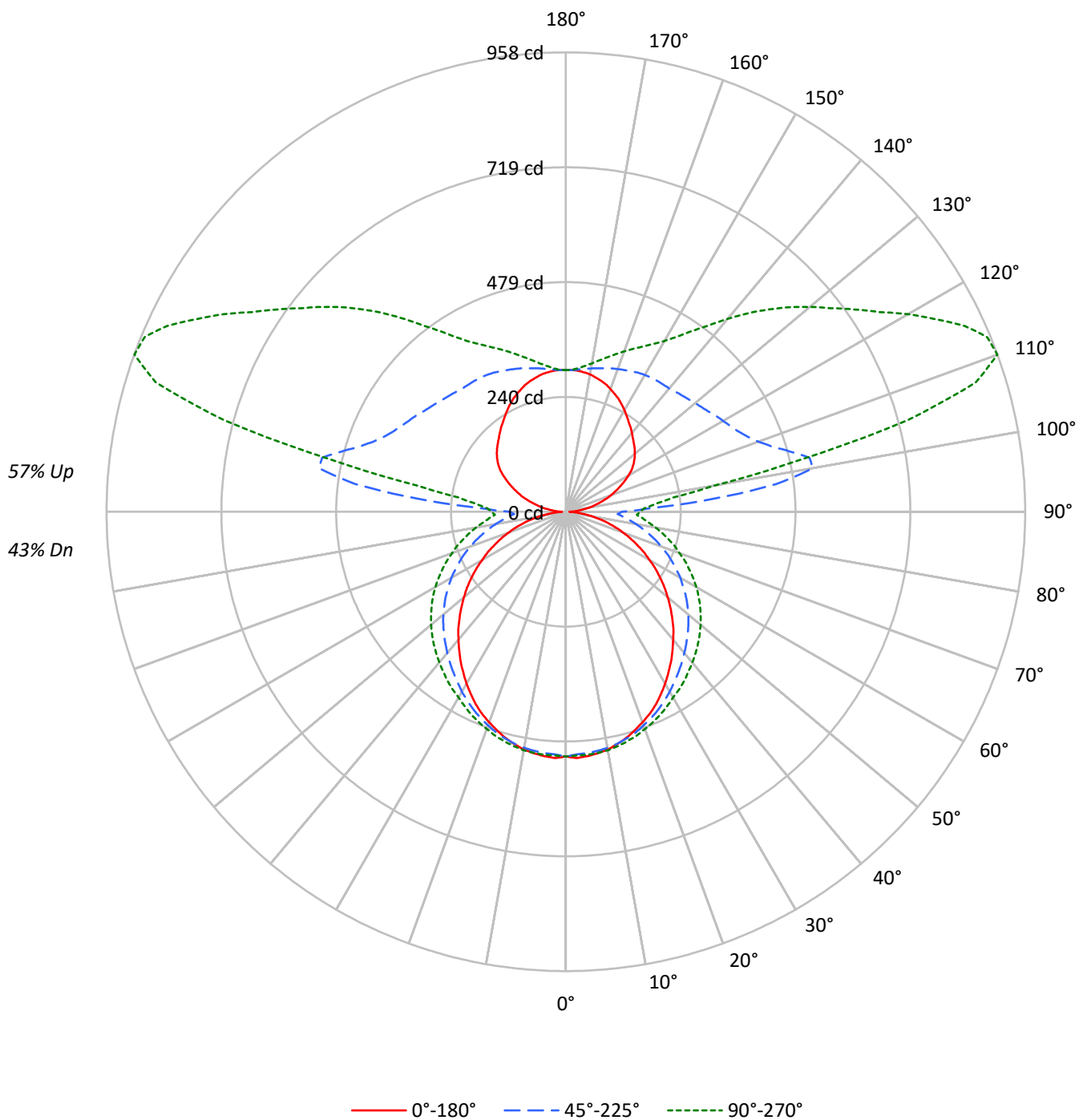
Lumens per Lamp: N/A
Luminaire Lumens: 4009.3 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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: P1009107

CATALOG NUMBER: S122DIP-B485D530UB40-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1009107

CATALOG NUMBER: S122DIP-B485D530UB40-4F0-XX-W2A-D4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	43		
1	95	90	86	82	86	82	79	75	68	65	63	54	52	51	42	41	40	34		
2	86	78	71	66	78	71	65	61	59	54	51	47	44	41	36	34	32	27		
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	32	29	27	22		
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23	19		
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20	16		
6	60	47	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17	14		
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	21	17	15	12		
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13	11		
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12	10		
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6849 cd/sqm

TEST NUMBER: P1009107

CATALOG NUMBER: S122DIP-B485D530UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.2
10°-20°	138.7	3.5
20°-30°	210.2	5.2
30°-40°	256.0	6.4
40°-50°	275.4	6.9
50°-60°	267.5	6.7
60°-70°	233.6	5.8
70°-80°	179.8	4.5
80°-90°	122.3	3.1
90°-100°	202.9	5.1
100°-110°	465.7	11.6
110°-120°	465.8	11.6
120°-130°	372.4	9.3
130°-140°	290.7	7.2
140°-150°	214.1	5.3
150°-160°	149.4	3.7
160°-170°	88.0	2.2
170°-180°	28.6	0.7
0°-30°	397.3	9.9
0°-40°	653.3	16.3
0°-60°	1196.2	29.8
0°-90°	1731.8	43.2
90°-120°	1134.3	28.3
90°-150°	2011.5	50.2
90°-180°	2277.0	56.8
0°-180°	4009.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	8	58	117	146	155	7
95°	26	90	308	197	187	25
105°	73	130	485	842	738	78
115°	125	165	397	794	918	124
125°	172	203	364	634	736	153
135°	201	239	343	519	596	155
145°	228	263	333	418	460	144
155°	260	280	323	366	380	120
165°	283	292	310	328	334	80
175°	295	295	298	302	301	28
180°	296	296	296	296	296	

TEST NUMBER: P1009107

CATALOG NUMBER: S122DIP-B485D530UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	8.0	58.0	116.9	145.7	154.9
92.5°	15.2	72.9	178.5	160.2	163.4
95°	25.8	89.6	307.8	197.2	186.8
97.5°	34.8	101.5	443.1	276.0	224.7
100°	49.0	111.5	523.0	437.5	312.9
102.5°	61.2	120.8	520.6	663.7	500.2
105°	73.0	129.6	484.7	842.2	738.1
107.5°	86.7	138.4	451.1	903.2	896.5
110°	99.6	147.5	427.4	886.3	957.6

TEST NUMBER: P1009107

CATALOG NUMBER: S122DIP-B485D530UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.1	156.9	409.7	844.6	951.3
115°	125.2	165.4	396.8	793.8	917.5
117.5°	138.0	174.6	387.0	745.6	869.6
120°	150.5	183.6	378.6	701.4	824.0
122.5°	162.5	193.6	371.9	666.3	775.3
125°	172.0	203.2	363.8	634.2	735.5
127.5°	180.5	213.0	357.7	605.3	697.2
130°	187.9	222.3	352.2	576.8	664.5
132.5°	194.7	231.4	347.1	547.4	631.5
135°	200.8	239.4	342.8	518.7	596.2
137.5°	207.0	246.2	339.1	489.6	561.3
140°	214.4	251.8	335.7	463.4	525.2
142.5°	221.8	256.9	334.2	438.8	490.0
145°	228.5	262.6	333.0	417.8	460.5
147.5°	236.4	267.1	331.3	399.6	433.2
150°	244.4	271.6	329.6	386.5	410.9
152.5°	252.3	276.2	326.8	376.0	394.4
155°	259.7	280.4	323.4	365.7	380.2
157.5°	266.0	283.9	320.0	356.0	367.7
160°	272.2	287.3	316.6	346.4	355.8
162.5°	278.5	289.8	313.7	337.3	344.4
165°	283.0	291.6	309.7	328.5	333.6
167.5°	287.0	293.2	306.3	320.5	323.4
170°	291.0	294.2	303.5	313.2	314.3
172.5°	293.3	295.0	300.1	306.6	306.9
175°	295.0	295.2	297.8	301.5	300.6
177.5°	296.1	295.5	295.5	297.8	296.1
180°	295.5	295.5	295.5	295.5	295.5

(END OF REPORT)