

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: P1009065

Luminaire Tested: S122DIP-B485D330UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009065
REPORT IS A COMBINATION OF REPORTS P984228 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D330UB40-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

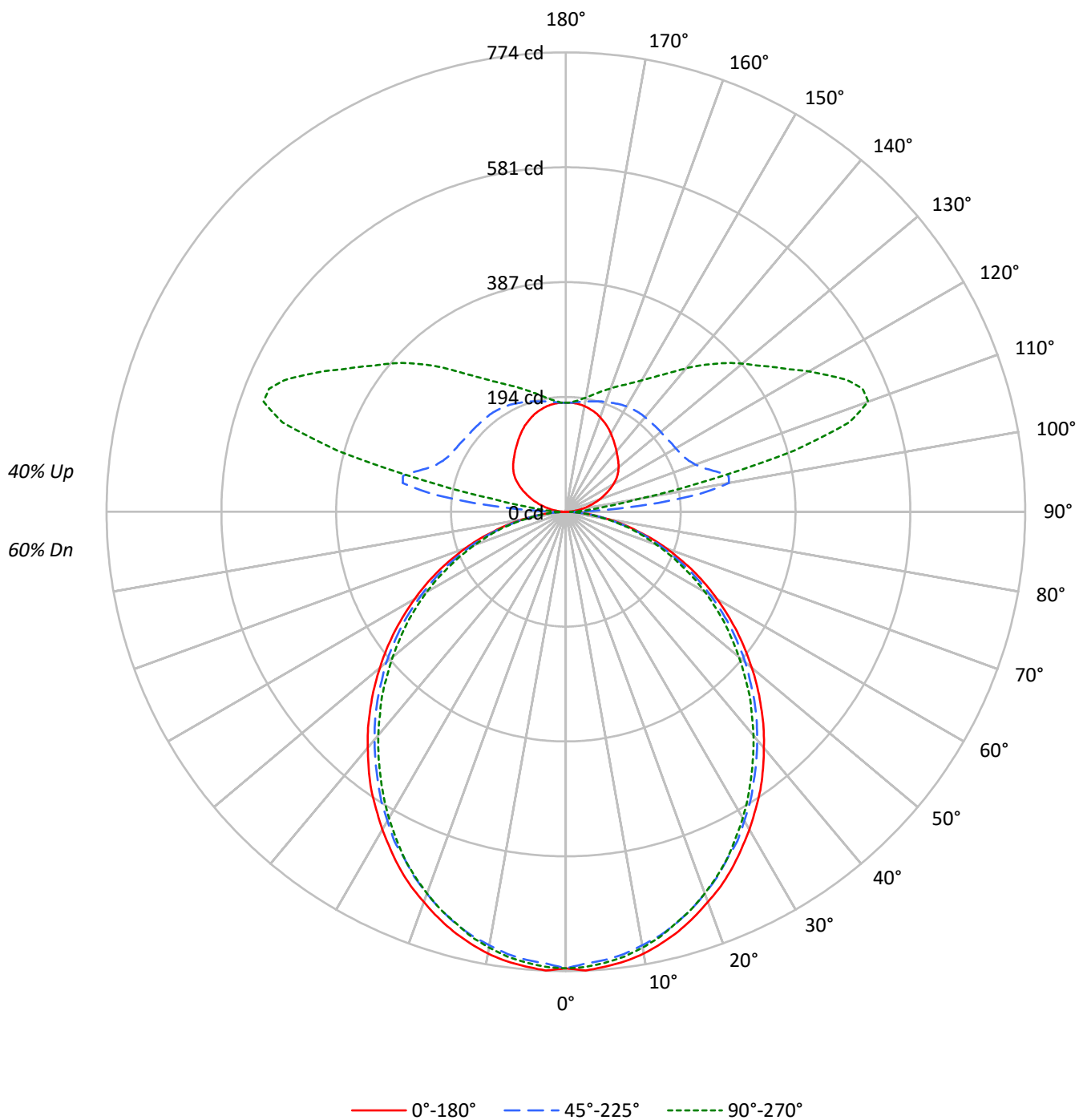
Lumens per Lamp: N/A
Luminaire Lumens: 3239.5 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1009065

CATALOG NUMBER: S122DIP-B485D330UB40-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1009065

CATALOG NUMBER: S122DIP-B485D330UB40-4F0-XX-W2A-F4

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56
2	91	84	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47
3	83	74	66	60	77	69	62	57	61	55	51	53	49	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	34
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	37	33	30
6	65	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26
7	60	47	39	33	56	45	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	30	52	41	33	28	36	30	26	32	27	23	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	29	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

TEST NUMBER: P1009065

CATALOG NUMBER: S122DIP-B485D330UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	2.2
10°-20°	203.7	6.3
20°-30°	299.3	9.2
30°-40°	347.7	10.7
40°-50°	347.2	10.7
50°-60°	302.8	9.3
60°-70°	223.8	6.9
70°-80°	126.6	3.9
80°-90°	34.6	1.1
90°-100°	74.5	2.3
100°-110°	251.9	7.8
110°-120°	264.8	8.2
120°-130°	217.7	6.7
130°-140°	174.9	5.4
140°-150°	132.2	4.1
150°-160°	92.9	2.9
160°-170°	54.7	1.7
170°-180°	17.8	0.5
0°-30°	575.4	17.8
0°-40°	923.1	28.5
0°-60°	1573.1	48.6
0°-90°	1958.2	60.4
90°-120°	591.1	18.2
90°-150°	1115.9	34.4
90°-180°	1281.0	39.5
0°-180°	3239.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	0	5	12	12	12	3
95°	12	30	138	52	40	13
105°	43	65	262	468	398	46
115°	76	96	219	452	524	75
125°	106	125	211	366	425	94
135°	124	148	208	308	352	96
145°	142	163	207	257	281	89
155°	162	174	201	227	236	74
165°	176	181	193	204	208	50
175°	183	184	185	188	187	17
180°	184	184	184	184	184	

TEST NUMBER: P1009065

CATALOG NUMBER: S122DIP-B485D330UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	0.4	4.8	12.0	11.5	11.7
92.5°	5.3	16.8	54.4	25.1	21.6
95°	12.4	30.4	138.5	52.3	40.3
97.5°	18.4	40.1	225.8	105.0	67.5
100°	27.2	49.2	279.2	209.0	126.5
102.5°	35.3	57.2	281.0	353.4	246.7
105°	43.1	65.0	261.9	468.1	398.3
107.5°	51.6	72.8	244.2	509.6	500.4
110°	60.1	80.8	232.2	502.9	542.1

TEST NUMBER: P1009065

CATALOG NUMBER: S122DIP-B485D330UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.9	88.4	224.4	480.2	541.4
115°	76.0	96.0	219.1	452.2	524.1
117.5°	84.5	103.6	216.3	425.5	498.0
120°	92.2	111.0	213.8	401.6	472.9
122.5°	99.7	118.6	212.4	383.1	446.7
125°	106.0	125.4	210.6	366.4	425.2
127.5°	111.3	132.0	209.6	352.0	405.0
130°	115.9	137.9	208.9	337.5	388.4
132.5°	120.2	143.4	208.5	322.5	371.1
135°	124.4	148.4	208.2	307.8	352.4
137.5°	128.3	152.7	208.2	293.0	334.3
140°	132.9	156.6	207.8	279.9	315.6
142.5°	137.5	159.8	207.8	267.4	296.9
145°	142.1	163.3	207.1	257.1	281.3
147.5°	147.0	166.1	206.0	248.1	267.5
150°	152.0	169.0	205.0	240.3	255.5
152.5°	156.9	171.8	203.2	233.8	245.3
155°	161.5	174.4	201.1	227.4	236.4
157.5°	165.4	176.5	199.0	221.4	228.7
160°	169.3	178.6	196.9	215.4	221.2
162.5°	173.2	180.2	195.1	209.8	214.2
165°	176.0	181.3	192.6	204.3	207.5
167.5°	178.5	182.4	190.5	199.3	201.1
170°	180.9	182.9	188.7	194.8	195.4
172.5°	182.4	183.4	186.6	190.6	190.8
175°	183.4	183.6	185.2	187.5	187.0
177.5°	184.1	183.8	183.8	185.2	184.1
180°	183.8	183.8	183.8	183.8	183.8

(END OF REPORT)