

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: P1009063

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009063
REPORT IS A COMBINATION OF REPORTS P984226 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-F
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

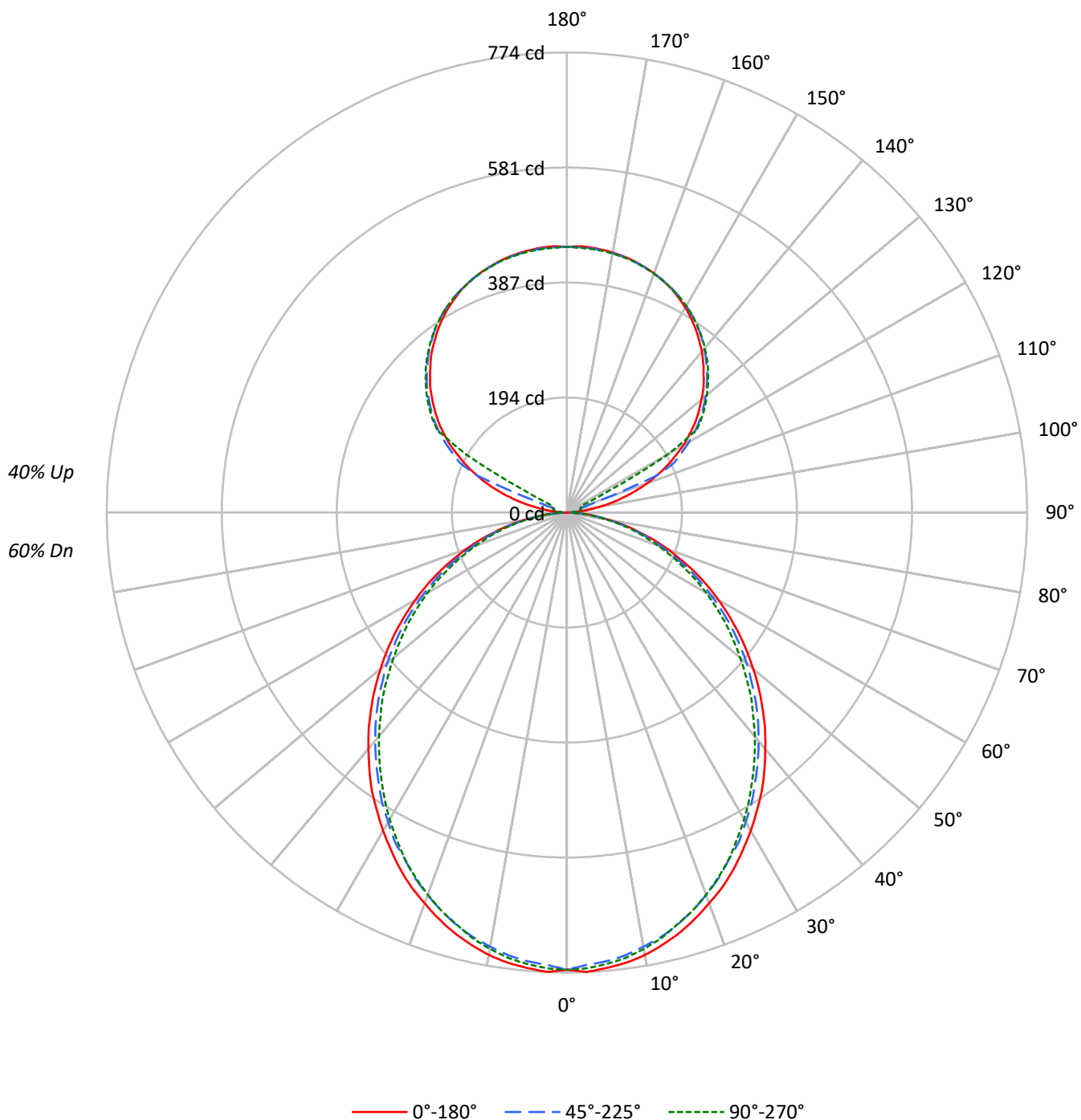
Lumens per Lamp: N/A
Luminaire Lumens: 3268.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1009063

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

Luminous Intensity Polar Plot



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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	65	65	65
1	100	96	92	88	93	89	86	83	78	75	73	67	66	64	58	56	55
2	91	84	77	72	85	78	73	68	68	64	61	59	56	53	51	48	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	30	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	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: P1009063

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	2.2
10°-20°	203.7	6.2
20°-30°	299.3	9.2
30°-40°	347.7	10.6
40°-50°	347.2	10.6
50°-60°	302.8	9.3
60°-70°	223.8	6.8
70°-80°	126.6	3.9
80°-90°	34.2	1.0
90°-100°	14.7	0.5
100°-110°	54.9	1.7
110°-120°	145.7	4.5
120°-130°	241.7	7.4
130°-140°	256.7	7.9
140°-150°	238.6	7.3
150°-160°	191.8	5.9
160°-170°	123.6	3.8
170°-180°	42.5	1.3
0°-30°	575.4	17.6
0°-40°	923.1	28.2
0°-60°	1573.1	48.1
0°-90°	1957.8	59.9
90°-120°	215.4	6.6
90°-150°	952.3	29.1
90°-180°	1310.0	40.1
0°-180°	3268.0	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	4	6	8	9	3
95°	21	10	13	14	14	25
105°	98	108	20	23	25	105
115°	186	191	200	50	26	183
125°	263	267	273	276	276	234
135°	325	330	333	337	336	251
145°	377	377	383	385	383	236
155°	416	413	416	418	416	191
165°	438	436	437	439	437	124
175°	448	446	446	448	445	43
180°	447	447	447	447	447	

TEST NUMBER: P1009063

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

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°	0.3	3.9	6.5	8.1	8.7
92.5°	8.1	6.8	7.8	8.4	8.7
95°	21.0	10.3	12.6	14.2	13.9
97.5°	37.8	11.3	16.5	17.5	17.8
100°	57.2	12.9	18.4	21.0	21.7
102.5°	78.6	77.9	19.1	22.6	23.6
105°	98.3	108.0	19.7	23.3	24.6
107.5°	121.3	129.4	20.4	23.9	25.2
110°	143.3	150.1	56.6	24.3	25.5

TEST NUMBER: P1009063

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.0	169.8	164.3	24.9	25.9
115°	185.9	191.4	199.5	49.8	26.5
117.5°	205.0	211.5	217.0	170.7	86.0
120°	226.4	231.2	237.0	240.9	197.3
122.5°	244.5	249.7	256.1	258.1	258.4
125°	262.9	267.1	273.3	275.5	276.5
127.5°	279.7	284.3	289.1	292.3	292.7
130°	295.6	300.7	304.3	307.9	307.5
132.5°	311.7	315.9	319.5	322.4	322.1
135°	325.3	330.5	333.4	336.6	336.0
137.5°	339.6	343.4	346.7	349.9	348.9
140°	353.5	356.0	359.6	362.5	360.9
142.5°	365.1	367.4	371.6	374.2	372.5
145°	377.4	377.1	382.6	384.8	383.2
147.5°	388.1	387.1	392.6	394.2	392.9
150°	398.4	396.1	401.3	403.3	401.6
152.5°	407.1	404.6	409.4	411.3	409.1
155°	415.6	412.6	416.5	418.5	415.9
157.5°	422.3	419.8	422.7	424.9	422.3
160°	428.2	426.2	428.2	430.1	427.8
162.5°	433.3	431.4	433.0	435.3	432.4
165°	437.9	435.9	436.9	439.2	436.9
167.5°	441.4	439.5	440.5	442.7	439.8
170°	444.3	442.4	443.0	445.3	442.4
172.5°	446.3	444.3	445.0	447.2	444.3
175°	447.9	445.6	446.3	448.5	445.3
177.5°	448.5	446.3	446.6	448.9	446.0
180°	446.9	446.9	446.9	446.9	446.9

(END OF REPORT)