

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: P1008616

Luminaire Tested: S122DIP-B1005D330UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008616
REPORT IS A COMBINATION OF REPORTS P983623 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB40-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

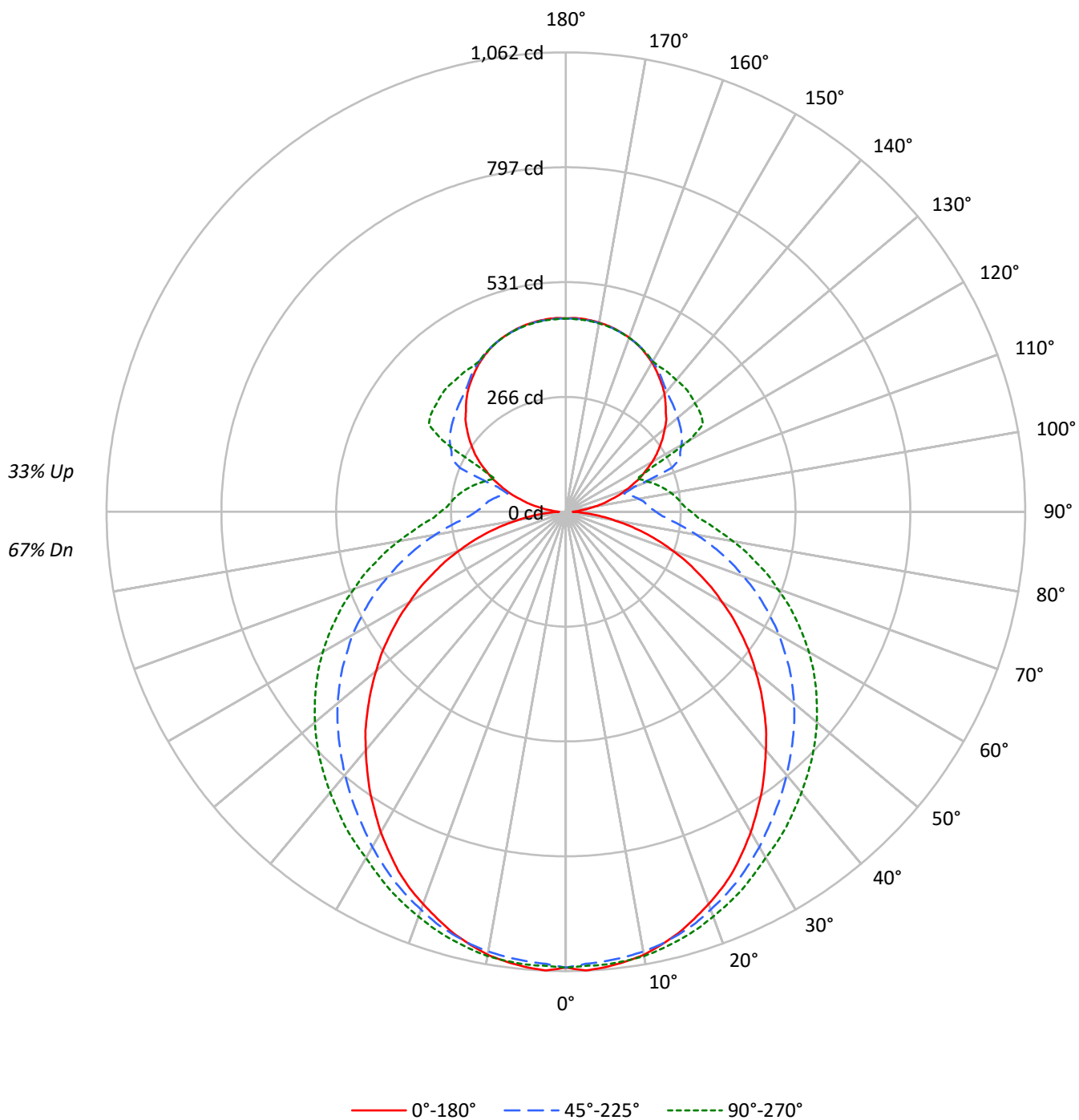
Lumens per Lamp: N/A
Luminaire Lumens: 5332.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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

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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	100	94	90	85	93	89	85	81	78	75	72	69	67	64	60	58	57
2	90	81	74	68	84	77	70	65	68	63	58	59	56	52	52	49	46
3	82	71	62	56	76	67	59	53	59	53	48	52	47	43	45	42	38
4	74	62	53	47	69	59	51	45	52	46	40	46	41	36	40	36	33
5	68	55	46	40	64	52	44	38	46	40	35	41	36	31	36	32	28
6	63	50	41	34	59	47	39	33	42	35	30	37	31	27	33	28	25
7	58	45	36	30	54	42	34	29	38	31	26	34	28	24	30	25	22
8	54	41	32	26	50	38	31	25	34	28	23	31	25	21	27	23	19
9	50	37	29	24	47	35	28	23	32	25	21	28	23	19	25	21	17
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16681	16681	16681
5°	16757	15969	15880
10°	16645	15416	15191
15°	16409	14845	14486
20°	16112	14243	13816
25°	15821	13668	13209
30°	15411	13083	12607
35°	14996	12520	12166
40°	14558	12033	11726
45°	14144	11591	11345
50°	13695	11183	10966
55°	13227	10751	10583
60°	12651	10300	10179
65°	12055	9782	9714
70°	11377	9225	9213
75°	10511	8668	8741
80°	9141	8090	8252
85°	7769	7544	7828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14144 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.9
10°-20°	286.5	5.4
20°-30°	434.1	8.1
30°-40°	528.7	9.9
40°-50°	568.8	10.7
50°-60°	552.4	10.4
60°-70°	482.4	9.0
70°-80°	371.3	7.0
80°-90°	249.5	4.7
90°-100°	186.3	3.5
100°-110°	180.2	3.4
110°-120°	228.4	4.3
120°-130°	287.7	5.4
130°-140°	276.0	5.2
140°-150°	241.8	4.5
150°-160°	191.8	3.6
160°-170°	123.6	2.3
170°-180°	42.5	0.8
0°-30°	820.6	15.4
0°-40°	1349.2	25.3
0°-60°	2470.4	46.3
0°-90°	3573.5	67.0
90°-120°	594.9	11.2
90°-150°	1400.5	26.3
90°-180°	1758.0	33.0
0°-180°	5332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1052	1043	1052	1051	100
15°	1008	1011	1011	1025	1023	284
25°	916	927	941	959	964	421
35°	790	816	845	878	889	494
45°	648	689	742	790	805	500
55°	496	551	631	686	706	444
65°	339	414	504	567	586	337
75°	188	273	371	437	457	199
85°	55	150	247	312	333	58
90°	16	108	208	271	290	12
95°	33	94	188	248	266	34
105°	106	160	151	208	226	114
115°	192	214	291	187	181	189
125°	266	270	325	369	383	238
135°	327	332	350	386	397	253
145°	377	377	383	394	400	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.8	1053.8	1053.8	1053.8	1053.8
2.5°	1061.5	1056.9	1046.2	1053.8	1050.8
5°	1056.9	1052.3	1043.1	1052.3	1050.8
7.5°	1049.2	1046.2	1038.5	1049.2	1047.7
10°	1040.1	1037.0	1032.4	1044.7	1043.1
12.5°	1024.8	1026.3	1023.3	1035.5	1034.0
15°	1008.0	1011.1	1011.1	1024.8	1023.3
17.5°	986.6	992.7	997.3	1011.1	1011.1
20°	965.2	972.9	979.0	995.8	995.8
22.5°	942.3	951.5	960.7	977.5	980.5
25°	916.4	927.1	940.8	959.1	963.7
27.5°	885.8	902.6	917.9	940.8	943.9
30°	855.3	875.1	895.0	919.4	924.0
32.5°	821.7	844.6	869.0	898.0	907.2
35°	789.6	815.6	844.6	878.2	888.9
37.5°	754.5	783.5	820.1	856.8	867.5
40°	719.3	752.9	794.2	833.9	847.6
42.5°	685.7	719.3	768.2	812.5	826.3
45°	647.6	688.8	742.3	789.6	804.9
47.5°	610.9	655.2	716.3	765.2	782.0
50°	572.7	620.1	688.8	740.7	757.5
52.5°	536.1	586.5	659.8	713.2	731.6
55°	496.4	551.3	630.8	685.7	705.6
57.5°	458.2	519.3	598.7	658.3	678.1
60°	416.9	482.6	569.7	627.7	649.1
62.5°	380.3	449.0	536.1	598.7	618.5
65°	339.1	413.9	504.0	566.6	586.5
67.5°	302.4	380.3	471.9	534.5	555.9
70°	262.7	342.1	436.8	502.5	520.8
72.5°	226.0	308.5	404.7	468.9	491.8
75°	187.9	273.4	371.1	436.8	456.7
77.5°	151.2	239.8	339.1	404.7	426.1
80°	114.5	207.7	307.0	371.1	392.5
82.5°	84.0	175.6	276.4	340.6	360.4
85°	55.0	149.7	247.4	311.6	332.9
87.5°	33.6	125.2	223.0	285.6	305.5
90°	15.6	107.8	208.1	270.8	289.7
92.5°	21.8	101.5	195.7	255.8	274.4
95°	33.2	94.3	188.2	247.9	265.9
97.5°	48.5	87.7	181.4	239.0	257.6
100°	67.9	80.1	171.1	230.2	247.7
102.5°	87.8	137.5	161.1	219.6	237.4
105°	105.9	159.9	151.0	208.1	226.2
107.5°	128.9	173.7	141.1	196.5	214.6
110°	149.4	186.8	168.1	184.7	202.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.1	200.3	265.1	174.6	192.4
115°	192.0	214.3	291.1	187.3	180.8
117.5°	209.6	228.3	297.9	297.5	228.0
120°	231.0	241.9	308.8	355.4	328.6
122.5°	249.1	255.8	318.7	362.0	376.0
125°	266.0	270.2	325.2	368.7	383.4
127.5°	282.8	285.8	331.9	373.2	387.4
130°	298.7	302.2	337.9	378.2	390.0
132.5°	314.8	317.4	343.9	382.0	393.9
135°	326.8	332.0	350.2	385.5	397.1
137.5°	341.1	344.9	355.9	388.1	397.8
140°	355.0	356.0	362.7	390.0	397.6
142.5°	366.6	367.4	371.6	392.5	398.5
145°	377.4	377.1	382.6	394.0	400.0
147.5°	388.1	387.1	392.6	395.7	399.0
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)