

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: P1008601

Luminaire Tested: S122DIP-B1005D330UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008601
REPORT IS A COMBINATION OF REPORTS P983608 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB30-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

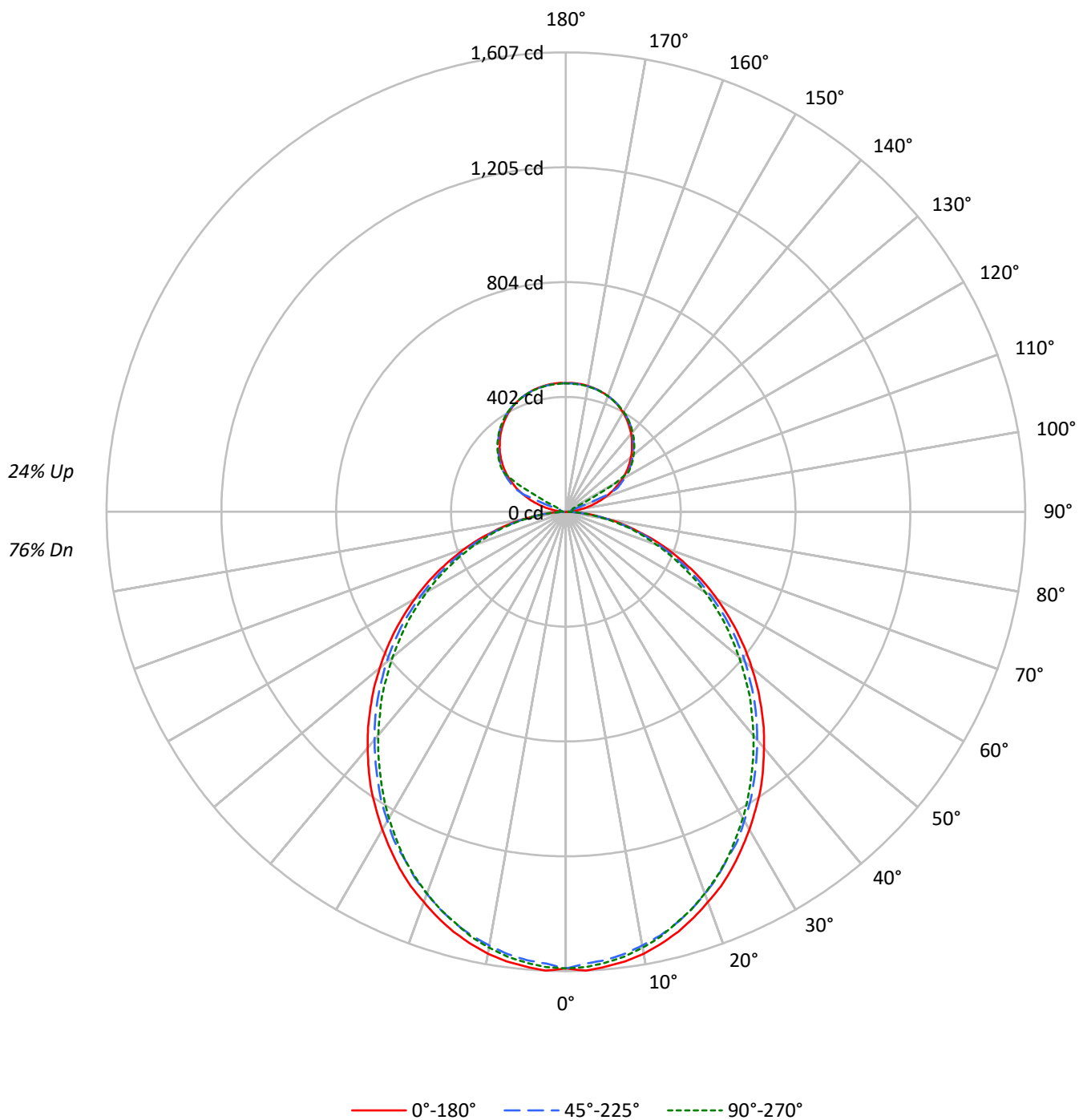
Lumens per Lamp: N/A
Luminaire Lumens: 5383.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80
1	104	99	95	91	98	94	91	88	86	83	80	78	76	74	70	69	67
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57
3	86	76	68	62	82	73	66	60	66	61	56	60	56	52	55	51	48
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42
5	73	60	52	46	69	58	50	44	53	47	42	49	43	39	44	40	36
6	67	54	46	40	63	52	44	39	48	41	36	44	38	34	40	36	32
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	24	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25286	25286	25286
5°	25327	24101	23931
10°	25120	23004	22546
15°	24753	21896	21092
20°	24255	20693	19713
25°	23759	19436	18336
30°	23137	18254	16892
35°	22549	17008	15473
40°	21822	15778	14131
45°	21100	14558	12816
50°	20312	13317	11451
55°	19481	11990	10160
60°	18550	10553	8816
65°	17526	9093	7403
70°	16232	7493	5978
75°	14433	5777	4615
80°	12263	3926	2971
85°	8899	1826	1265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	2.8
10°-20°	423.0	7.9
20°-30°	621.6	11.5
30°-40°	722.0	13.4
40°-50°	721.1	13.4
50°-60°	628.8	11.7
60°-70°	464.8	8.6
70°-80°	263.0	4.9
80°-90°	70.2	1.3
90°-100°	14.8	0.3
100°-110°	55.3	1.0
110°-120°	146.6	2.7
120°-130°	243.1	4.5
130°-140°	258.3	4.8
140°-150°	240.0	4.5
150°-160°	193.0	3.6
160°-170°	124.3	2.3
170°-180°	42.8	0.8
0°-30°	1195.0	22.2
0°-40°	1917.0	35.6
0°-60°	3266.8	60.7
0°-90°	4064.8	75.5
90°-120°	216.7	4.0
90°-150°	958.1	17.8
90°-180°	1318.0	24.5
0°-180°	5383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1597	1591	1574	1587	1584	152
15°	1521	1511	1491	1498	1490	428
25°	1376	1364	1338	1341	1338	633
35°	1187	1172	1147	1138	1130	741
45°	966	955	932	915	909	746
55°	731	722	704	685	677	654
65°	493	484	468	455	447	487
75°	258	255	247	238	241	275
85°	63	61	60	55	54	70
90°	0	4	6	8	9	5
95°	21	10	13	14	14	25
105°	99	109	20	23	25	106
115°	187	193	201	50	27	184
125°	264	269	275	277	278	236
135°	327	332	335	339	338	253
145°	380	379	385	387	386	237
155°	418	415	419	421	418	193
165°	440	439	440	442	440	124
175°	451	448	449	451	448	43
180°	450	450	450	450	450	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1606.6	1598.9	1582.0	1597.4	1594.3
5°	1597.4	1591.2	1574.3	1586.6	1583.6
7.5°	1586.6	1577.4	1560.5	1572.8	1569.7
10°	1569.7	1559.0	1540.6	1552.8	1548.2
12.5°	1546.7	1537.5	1519.1	1526.7	1523.7
15°	1520.6	1511.4	1491.4	1497.5	1489.9
17.5°	1488.3	1479.1	1459.1	1466.8	1459.1
20°	1453.0	1443.8	1422.3	1426.9	1420.8
22.5°	1417.7	1403.9	1383.9	1383.9	1380.8
25°	1376.2	1363.9	1337.8	1340.9	1337.8
27.5°	1330.1	1319.4	1299.4	1294.8	1287.1
30°	1284.1	1271.8	1248.7	1244.1	1238.0
32.5°	1234.9	1225.7	1201.1	1191.9	1185.8
35°	1187.3	1171.9	1147.4	1138.1	1130.5
37.5°	1133.5	1119.7	1095.1	1084.4	1076.7
40°	1078.2	1065.9	1041.4	1027.5	1021.4
42.5°	1024.5	1012.2	987.6	972.3	963.0
45°	966.1	955.4	932.3	915.4	909.3
47.5°	909.3	898.5	874.0	857.1	847.8
50°	849.4	841.7	820.2	798.7	791.0
52.5°	791.0	780.3	760.3	743.4	732.6
55°	731.1	721.9	703.5	685.0	677.4
57.5°	671.2	663.5	643.6	625.1	619.0
60°	611.3	605.2	583.7	566.8	562.2
62.5°	552.9	542.2	526.8	511.5	505.3
65°	493.0	483.8	468.5	454.6	447.0
67.5°	431.6	423.9	410.1	399.3	393.2
70°	374.8	368.6	354.8	344.1	337.9
72.5°	316.4	310.3	302.6	291.8	287.2
75°	258.0	255.0	247.3	238.1	241.1
77.5°	205.8	199.7	196.6	192.0	187.4
80°	153.6	152.1	149.0	144.4	141.3
82.5°	104.4	104.4	102.9	96.8	96.8
85°	63.0	61.4	59.9	55.3	53.8
87.5°	27.6	24.6	21.5	16.9	15.4
90°	0.3	3.9	6.5	8.1	8.8
92.5°	8.1	6.8	7.8	8.5	8.8
95°	21.1	10.4	12.7	14.3	14.0
97.5°	38.1	11.4	16.6	17.6	17.9
100°	57.6	13.0	18.5	21.1	21.8
102.5°	79.1	78.4	19.2	22.8	23.8
105°	98.9	108.7	19.8	23.4	24.7
107.5°	122.0	130.1	20.5	24.1	25.4
110°	144.1	151.0	56.9	24.4	25.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.0	170.8	165.3	25.1	26.0
115°	187.1	192.6	200.7	50.1	26.7
117.5°	206.3	212.8	218.3	171.8	86.5
120°	227.8	232.6	238.5	242.4	198.5
122.5°	246.0	251.2	257.7	259.6	260.0
125°	264.5	268.7	274.9	277.2	278.2
127.5°	281.4	286.0	290.9	294.1	294.5
130°	297.4	302.6	306.2	309.7	309.4
132.5°	313.6	317.9	321.5	324.4	324.1
135°	327.3	332.5	335.4	338.7	338.0
137.5°	341.6	345.5	348.8	352.0	351.1
140°	355.6	358.2	361.8	364.7	363.1
142.5°	367.3	369.6	373.8	376.4	374.8
145°	379.7	379.4	384.9	387.2	385.6
147.5°	390.4	389.5	395.0	396.6	395.3
150°	400.8	398.6	403.8	405.7	404.1
152.5°	409.6	407.0	411.9	413.9	411.6
155°	418.1	415.2	419.1	421.0	418.4
157.5°	424.9	422.3	425.2	427.5	424.9
160°	430.8	428.8	430.8	432.7	430.5
162.5°	436.0	434.0	435.7	437.9	435.0
165°	440.5	438.6	439.6	441.8	439.6
167.5°	444.1	442.2	443.1	445.4	442.5
170°	447.0	445.1	445.7	448.0	445.1
172.5°	449.0	447.0	447.7	450.0	447.0
175°	450.6	448.3	449.0	451.3	448.0
177.5°	451.3	449.0	449.3	451.6	448.7
180°	449.6	449.6	449.6	449.6	449.6

(END OF REPORT)