

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: P1008636

Luminaire Tested: S122DIP-B1005D530UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008636
REPORT IS A COMBINATION OF REPORTS P983643 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

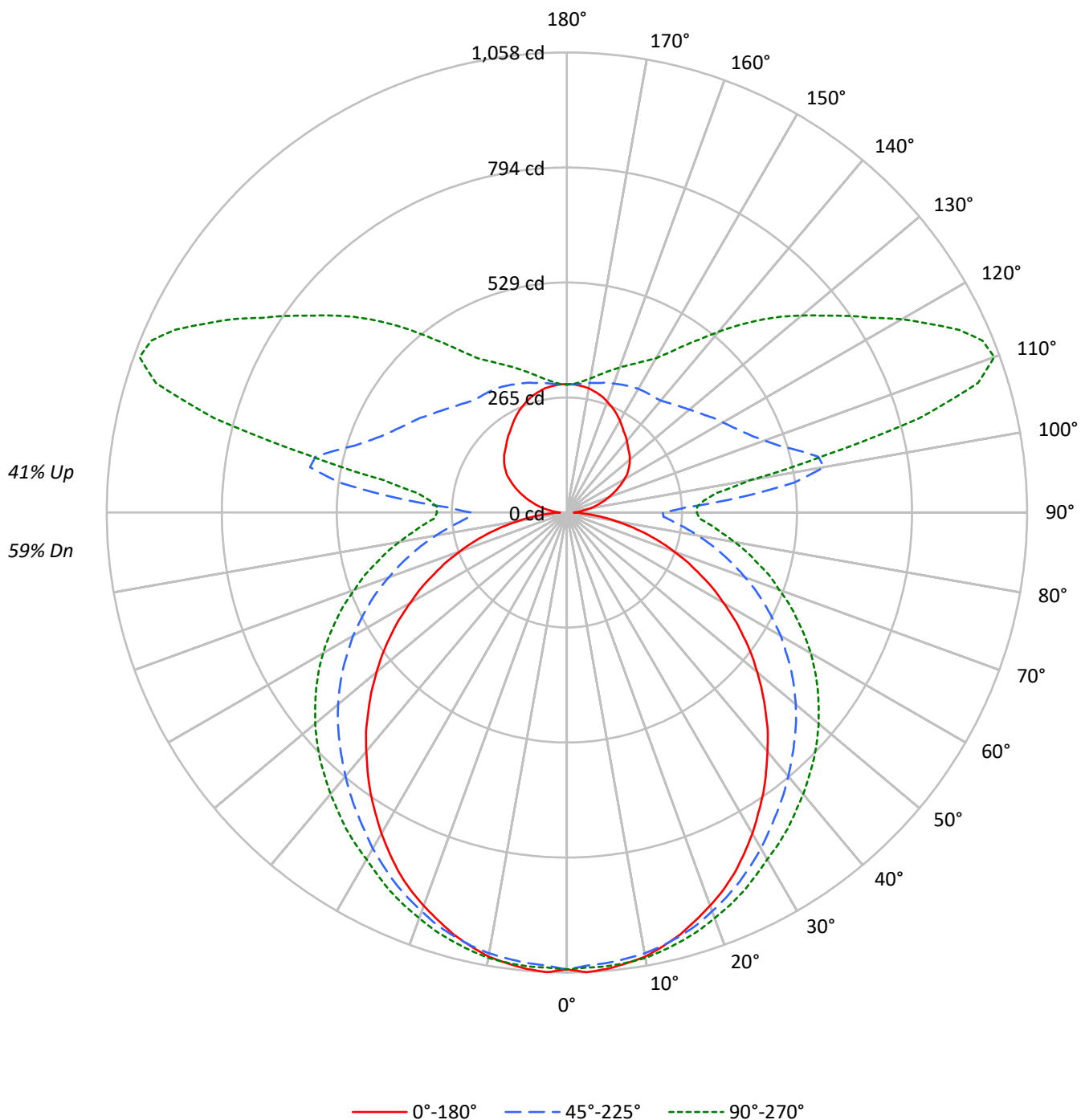
Lumens per Lamp: N/A
Luminaire Lumens: 6064.3 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 76.7
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	98	93	88	84	91	87	82	79	75	72	69	64	62	60	54	52	51
2	89	80	73	67	82	75	69	63	65	60	56	55	52	48	46	44	41
3	80	70	62	55	74	65	58	52	56	51	46	48	44	40	41	37	34
4	73	61	53	46	68	57	50	44	50	44	39	43	38	34	36	32	29
5	67	55	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25
6	62	49	40	34	57	46	38	32	40	33	29	34	29	25	29	25	22
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17
9	49	36	29	23	46	34	27	22	30	24	20	26	21	18	22	18	16
10	46	33	26	21	43	31	24	20	28	22	18	24	19	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.6
10°-20°	285.7	4.7
20°-30°	432.8	7.1
30°-40°	527.1	8.7
40°-50°	567.1	9.4
50°-60°	550.7	9.1
60°-70°	481.0	7.9
70°-80°	370.2	6.1
80°-90°	249.8	4.1
90°-100°	290.4	4.8
100°-110°	528.6	8.7
110°-120°	506.8	8.4
120°-130°	394.8	6.5
130°-140°	299.6	4.9
140°-150°	215.0	3.5
150°-160°	148.9	2.5
160°-170°	87.7	1.4
170°-180°	28.5	0.5
0°-30°	818.1	13.5
0°-40°	1345.2	22.2
0°-60°	2463.0	40.6
0°-90°	3564.0	58.8
90°-120°	1325.8	21.9
90°-150°	2235.3	36.9
90°-180°	2500.0	41.2
0°-180°	6064.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	111	220	280	299	12
95°	32	132	397	317	316	30
105°	77	156	551	934	839	82
115°	128	177	443	862	994	126
125°	173	204	389	680	788	154
135°	201	239	350	542	626	156
145°	228	262	332	421	468	143
155°	259	280	322	364	379	119
165°	282	291	309	327	332	80
175°	294	294	297	300	300	28
180°	294	294	294	294	294	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	15.8	111.2	220.3	280.3	298.9
92.5°	22.2	121.3	274.5	286.9	299.6
95°	32.0	132.4	397.1	316.8	315.8
97.5°	40.2	140.4	526.4	389.0	347.3
100°	54.3	145.8	599.8	543.6	428.2
102.5°	65.7	151.2	591.9	762.8	608.5
105°	76.7	156.0	550.7	934.4	839.3
107.5°	90.3	160.9	511.7	988.8	990.8
110°	102.4	165.9	483.3	965.9	1045.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.8	172.1	460.2	918.6	1033.7
115°	127.9	176.6	442.6	861.7	993.8
117.5°	140.0	182.6	427.3	808.4	939.7
120°	152.4	188.6	414.3	757.9	888.8
122.5°	164.3	196.1	402.8	717.4	833.1
125°	172.9	204.0	389.4	679.9	788.0
127.5°	181.4	213.0	378.5	644.8	743.5
130°	188.8	222.4	368.2	610.9	704.7
132.5°	195.6	231.4	358.6	576.2	666.3
135°	200.9	239.4	350.3	542.1	625.6
137.5°	207.1	246.2	342.7	507.6	584.5
140°	214.5	251.0	336.0	476.0	542.3
142.5°	221.8	256.0	333.0	446.8	501.7
145°	227.7	261.6	331.9	421.2	467.6
147.5°	235.6	266.2	330.2	399.1	434.9
150°	243.6	270.7	328.5	385.2	409.5
152.5°	251.5	275.2	325.7	374.6	393.1
155°	258.8	279.6	322.3	364.5	378.9
157.5°	265.1	282.9	318.9	354.8	366.5
160°	271.3	286.3	315.5	345.2	354.6
162.5°	277.5	288.8	312.7	336.2	343.2
165°	282.1	290.6	308.7	327.4	332.5
167.5°	286.0	292.2	305.3	319.5	322.3
170°	290.0	293.2	302.5	312.1	313.2
172.5°	292.3	294.0	299.1	305.6	305.9
175°	294.0	294.2	296.8	300.5	299.6
177.5°	295.1	294.5	294.5	296.8	295.1
180°	294.5	294.5	294.5	294.5	294.5

(END OF REPORT)