

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: P1009310

Luminaire Tested: S122DIP-B675D530UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009310
REPORT IS A COMBINATION OF REPORTS P984566 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

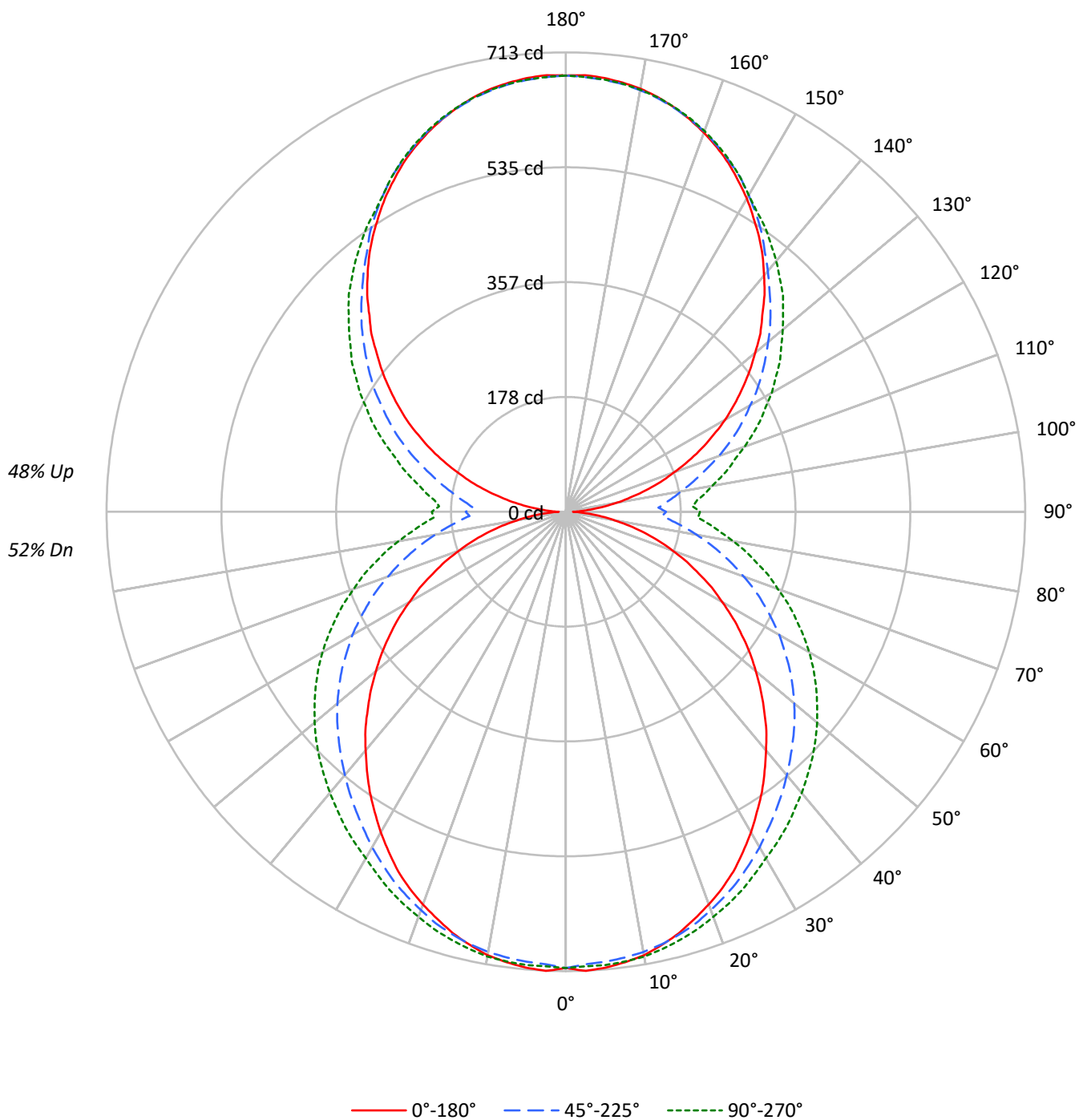
Lumens per Lamp: N/A
Luminaire Lumens: 4597.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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

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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	97	92	87	83	89	85	81	77	72	69	66	60	58	56	49	47	46
2	87	79	72	67	80	73	67	62	62	58	54	52	48	45	42	40	38
3	79	69	61	55	73	64	57	51	54	49	44	45	41	38	37	34	31
4	72	61	52	46	66	56	49	43	48	42	37	40	35	32	33	29	27
5	66	54	45	39	61	50	42	37	43	37	32	36	31	27	29	26	23
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	23	20
7	56	43	35	29	52	40	33	28	35	29	24	29	24	21	24	20	18
8	52	39	31	26	48	37	29	24	31	26	21	27	22	19	22	18	16
9	49	36	28	23	45	33	26	22	29	23	19	24	20	17	20	17	14
10	45	33	25	20	42	31	24	19	27	21	17	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.5
10°-20°	192.5	4.2
20°-30°	291.7	6.3
30°-40°	355.2	7.7
40°-50°	382.2	8.3
50°-60°	371.2	8.1
60°-70°	324.2	7.1
70°-80°	249.5	5.4
80°-90°	169.0	3.7
90°-100°	157.2	3.4
100°-110°	217.4	4.7
110°-120°	283.4	6.2
120°-130°	330.6	7.2
130°-140°	349.4	7.6
140°-150°	332.0	7.2
150°-160°	276.7	6.0
160°-170°	183.5	4.0
170°-180°	64.1	1.4
0°-30°	551.4	12.0
0°-40°	906.6	19.7
0°-60°	1660.0	36.1
0°-90°	2402.7	52.3
90°-120°	658.0	14.3
90°-150°	1670.0	36.3
90°-180°	2194.0	47.7
0°-180°	4597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	77	156	195	208	9
95°	38	92	155	194	205	40
105°	128	160	214	251	262	136
115°	233	247	292	323	332	230
125°	335	340	371	397	406	299
135°	431	438	449	470	476	334
145°	522	526	530	536	539	327
155°	597	599	600	603	602	275
165°	650	649	649	653	650	183
175°	676	674	673	677	674	64
180°	677	677	677	677	677	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	10.9	77.2	155.5	195.4	208.2
92.5°	21.8	80.7	143.9	184.6	196.9
95°	37.9	91.8	154.6	193.6	204.7
97.5°	56.9	106.2	167.9	205.9	218.2
100°	79.8	122.3	181.5	219.5	230.2
102.5°	102.8	140.0	197.7	235.3	246.0
105°	128.0	159.5	214.0	251.1	262.4
107.5°	154.2	181.2	232.5	268.0	276.4
110°	178.4	202.3	252.6	285.5	295.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.8	225.6	272.3	303.4	313.6
115°	232.7	247.4	292.4	322.7	332.3
117.5°	258.5	271.3	311.5	340.6	349.1
120°	285.4	294.0	330.5	359.3	368.9
122.5°	309.9	316.7	351.8	377.8	385.8
125°	334.7	339.8	370.9	396.9	405.5
127.5°	359.8	365.0	390.4	413.8	421.3
130°	383.2	389.6	410.0	433.5	439.4
132.5°	409.5	414.1	430.1	450.8	457.3
135°	431.3	437.6	449.0	469.9	476.5
137.5°	456.4	461.5	467.9	486.8	491.6
140°	478.7	482.8	487.8	504.2	508.0
142.5°	501.5	505.7	507.4	520.3	523.1
145°	522.3	526.3	529.7	536.5	539.3
147.5°	541.7	546.8	549.1	551.3	552.1
150°	561.7	565.1	567.4	569.1	567.4
152.5°	579.4	582.8	585.7	588.0	585.7
155°	597.1	598.8	600.5	603.4	601.7
157.5°	612.5	613.7	614.8	618.8	616.0
160°	626.3	627.4	628.0	631.4	629.1
162.5°	638.8	638.8	639.4	643.4	640.5
165°	649.7	649.1	649.1	653.1	650.3
167.5°	659.4	657.7	657.7	661.7	658.8
170°	666.8	665.1	664.5	668.5	665.1
172.5°	672.0	670.3	669.7	673.7	670.3
175°	676.0	674.3	673.1	677.1	673.7
177.5°	678.3	676.5	675.4	678.8	675.4
180°	677.1	677.1	677.1	677.1	677.1

(END OF REPORT)