

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: P1009320

Luminaire Tested: S122DIP-B675D530UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009320
REPORT IS A COMBINATION OF REPORTS P984576 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

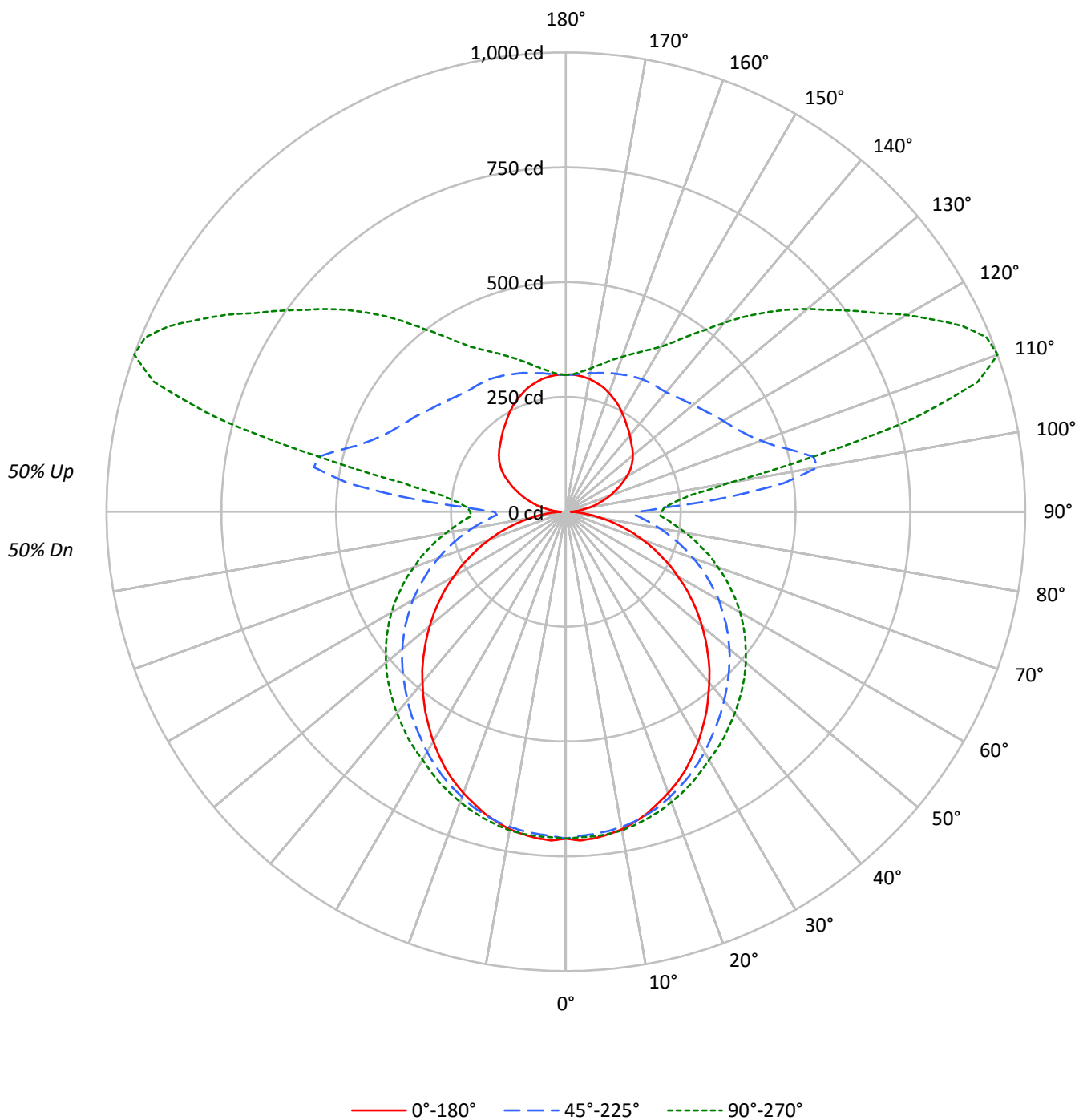
Lumens per Lamp: N/A
Luminaire Lumens: 4796.3 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	56	56	56
1	96	91	87	83	89	84	80	77	71	68	65	59	57	55	47	46	45	45	45	45
2	87	79	72	66	80	73	67	62	61	57	53	51	47	45	41	39	36	36	36	36
3	79	69	61	55	72	64	57	51	54	48	44	44	40	37	36	33	30	30	30	30
4	72	61	52	46	66	56	49	43	47	42	37	39	35	31	32	28	26	26	26	26
5	66	54	45	39	60	50	42	36	42	36	32	35	30	27	28	25	22	22	22	22
6	61	48	40	34	56	45	37	31	38	32	27	32	27	23	26	22	19	19	19	19
7	56	43	35	29	51	40	33	27	34	28	24	29	24	20	23	20	17	17	17	17
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15	15	15	15
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14	14	14	14
10	45	33	25	20	42	30	24	19	26	21	17	22	18	15	18	15	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.4
10°-20°	193.4	4.0
20°-30°	293.0	6.1
30°-40°	356.8	7.4
40°-50°	383.9	8.0
50°-60°	372.8	7.8
60°-70°	325.6	6.8
70°-80°	250.6	5.2
80°-90°	169.7	3.5
90°-100°	236.7	4.9
100°-110°	493.5	10.3
110°-120°	485.7	10.1
120°-130°	384.6	8.0
130°-140°	297.1	6.2
140°-150°	216.8	4.5
150°-160°	150.9	3.1
160°-170°	88.8	1.9
170°-180°	28.9	0.6
0°-30°	553.8	11.5
0°-40°	910.7	19.0
0°-60°	1667.4	34.8
0°-90°	2413.3	50.3
90°-120°	1216.0	25.4
90°-150°	2114.5	44.1
90°-180°	2383.0	49.7
0°-180°	4796.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	11	78	156	196	209	9
95°	28	106	343	243	236	27
105°	75	141	514	885	783	80
115°	128	171	418	827	955	126
125°	174	206	377	658	762	155
135°	203	242	349	533	613	157
145°	231	265	336	424	468	145
155°	262	283	326	369	384	121
165°	286	294	313	332	337	81
175°	298	298	301	304	304	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	10.9	77.8	155.6	196.0	208.6
92.5°	17.9	91.2	215.2	207.7	214.4
95°	28.3	106.0	343.4	242.6	235.5
97.5°	37.0	116.6	478.0	319.9	271.4
100°	51.4	125.2	556.4	480.6	358.0
102.5°	63.6	133.2	552.1	706.9	544.8
105°	75.2	140.6	513.9	884.8	782.8
107.5°	89.0	148.1	477.9	944.0	940.4
110°	101.7	155.8	452.3	924.8	999.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.3	164.1	432.4	880.6	991.5
115°	127.5	171.3	417.7	827.0	955.1
117.5°	140.3	179.4	405.8	776.5	904.5
120°	152.9	187.4	395.6	729.5	856.5
122.5°	164.9	196.6	387.2	692.2	804.7
125°	174.3	205.8	377.0	657.7	762.5
127.5°	182.9	215.4	369.2	626.2	721.5
130°	190.3	224.8	361.8	595.4	686.4
132.5°	197.2	234.0	355.1	563.8	650.9
135°	203.0	242.0	349.3	532.8	613.3
137.5°	209.3	248.9	344.2	501.6	575.9
140°	216.8	254.2	339.5	473.1	537.1
142.5°	224.2	259.4	337.4	446.6	499.5
145°	230.7	265.1	336.3	423.7	468.1
147.5°	238.7	269.7	334.6	403.8	438.5
150°	246.8	274.3	332.8	390.2	414.9
152.5°	254.8	278.9	330.0	379.6	398.3
155°	262.2	283.2	326.5	369.2	383.9
157.5°	268.6	286.6	323.1	359.5	371.3
160°	274.9	290.0	319.6	349.8	359.2
162.5°	281.2	292.7	316.8	340.6	347.8
165°	285.8	294.4	312.7	331.6	336.9
167.5°	289.8	296.2	309.3	323.6	326.5
170°	293.8	297.0	306.4	316.2	317.3
172.5°	296.1	297.8	303.0	309.6	309.9
175°	297.8	298.1	300.7	304.4	303.6
177.5°	299.0	298.4	298.4	300.7	299.0
180°	298.4	298.4	298.4	298.4	298.4

(END OF REPORT)