

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: P1008179

Luminaire Tested: S122DIP-B675D530UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008179
REPORT IS A COMBINATION OF REPORTS P984552 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB2750-4F0-XX-W2A-D_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

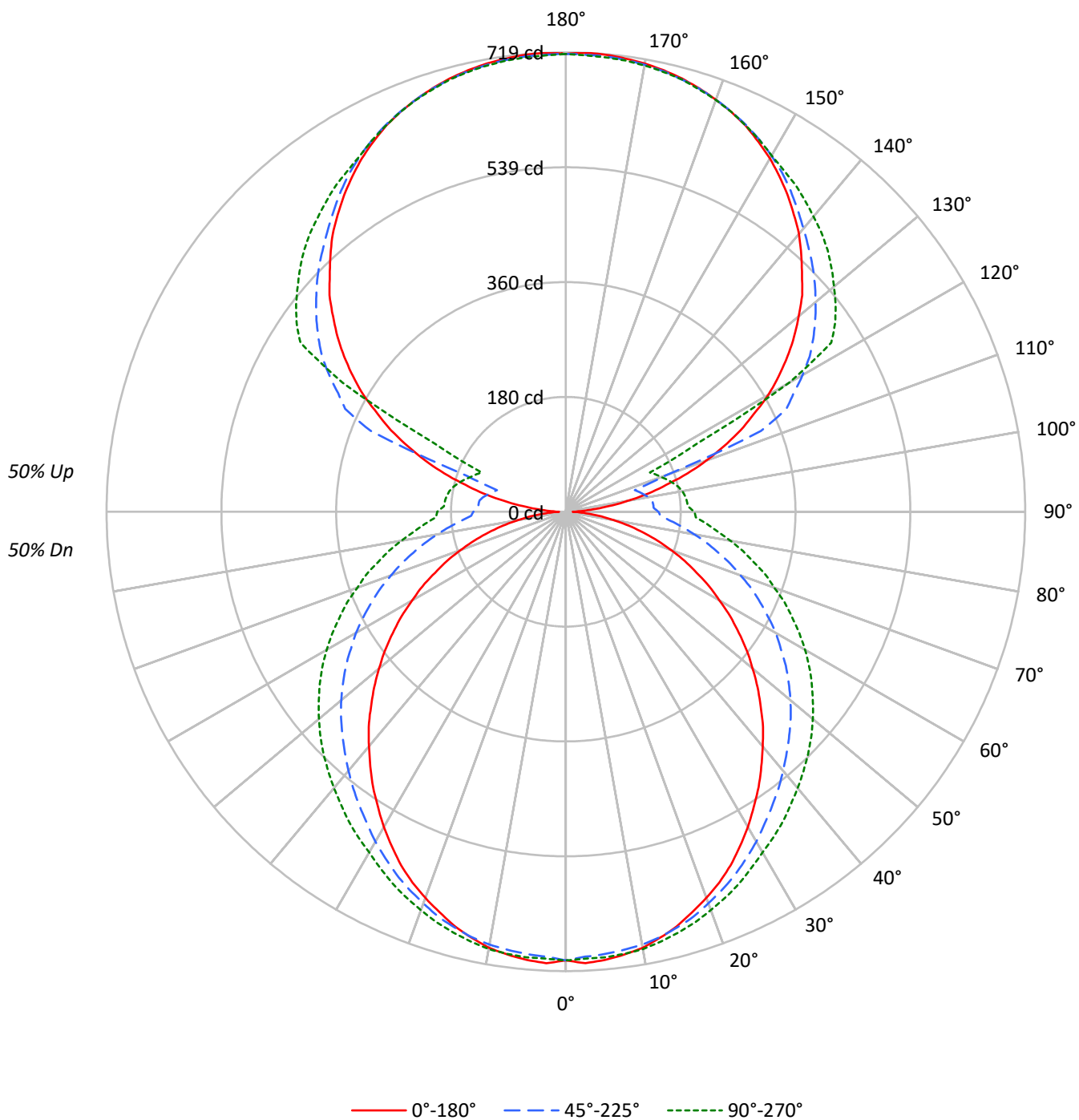
Lumens per Lamp: N/A
Luminaire Lumens: 4781.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
Input Voltage (V): 120
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

TEST NUMBER: P1008179

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_2700K

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	96	91	87	83	88	84	80	77	71	68	65	58	56	54	47	46	44
2	87	79	72	66	80	73	67	62	61	57	53	50	47	44	41	38	36
3	79	69	61	55	72	63	57	51	53	48	44	44	40	37	35	33	30
4	72	61	52	46	66	56	48	43	47	41	37	39	35	31	31	28	26
5	66	54	45	39	60	50	42	36	42	36	31	35	30	27	28	25	22
6	61	48	40	34	56	44	37	31	38	32	27	31	27	23	25	22	19
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	20	17
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

TEST NUMBER: P1008179

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.4
10°-20°	190.9	4.0
20°-30°	289.2	6.0
30°-40°	352.2	7.4
40°-50°	379.0	7.9
50°-60°	368.0	7.7
60°-70°	321.4	6.7
70°-80°	247.4	5.2
80°-90°	166.9	3.5
90°-100°	137.9	2.9
100°-110°	171.6	3.6
110°-120°	288.7	6.0
120°-130°	418.2	8.7
130°-140°	424.4	8.9
140°-150°	384.7	8.0
150°-160°	307.5	6.4
160°-170°	198.2	4.1
170°-180°	68.2	1.4
0°-30°	546.7	11.4
0°-40°	898.9	18.8
0°-60°	1645.9	34.4
0°-90°	2381.6	49.8
90°-120°	598.2	12.5
90°-150°	1825.5	38.2
90°-180°	2399.0	50.2
0°-180°	4781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	11	75	145	188	201	9
95°	42	73	137	178	190	46
105°	163	208	119	160	174	174
115°	302	322	381	171	145	297
125°	424	430	473	504	514	378
135°	523	531	546	572	579	404
145°	605	605	613	623	626	379
155°	666	662	668	671	667	307
165°	702	699	700	704	700	198
175°	718	714	716	719	714	68
180°	717	717	717	717	717	

TEST NUMBER: P1008179

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	10.7	75.4	144.7	188.0	201.2
92.5°	22.2	74.0	137.6	178.3	191.1
95°	41.8	72.6	137.2	178.5	190.2
97.5°	67.8	69.0	136.3	175.5	188.3
100°	98.9	65.5	131.4	173.1	185.3
102.5°	132.1	164.7	125.2	167.6	180.4
105°	162.7	207.8	119.1	160.4	173.7
107.5°	199.5	236.9	113.1	153.4	166.6
110°	233.8	265.0	165.0	145.7	159.0

TEST NUMBER: P1008179

CATALOG NUMBER: S122DIP-B675D530UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.0	292.6	330.6	139.6	152.4
115°	302.2	322.3	381.0	171.4	145.3
117.5°	331.8	350.3	401.8	358.3	232.5
120°	366.1	377.8	427.9	462.6	403.8
122.5°	395.1	404.4	452.4	483.0	492.7
125°	423.5	430.3	472.7	503.9	514.5
127.5°	450.5	456.8	492.0	522.6	532.3
130°	475.9	483.2	510.3	540.4	548.0
132.5°	501.8	507.6	528.6	556.6	564.2
135°	522.6	530.9	545.8	572.4	579.4
137.5°	545.4	551.7	561.9	586.4	592.1
140°	567.7	570.9	578.6	599.5	603.1
142.5°	586.4	589.0	595.8	612.1	614.6
145°	605.1	604.6	613.4	623.1	625.6
147.5°	622.2	620.6	629.5	633.1	634.1
150°	638.8	635.2	643.5	646.6	644.0
152.5°	652.8	648.6	656.4	659.5	655.9
155°	666.3	661.6	667.8	670.9	666.8
157.5°	677.2	673.0	677.7	681.3	677.2
160°	686.5	683.4	686.5	689.6	686.0
162.5°	694.8	691.7	694.3	697.9	693.2
165°	702.1	698.9	700.5	704.1	700.5
167.5°	707.8	704.6	706.2	709.8	705.2
170°	712.4	709.3	710.4	714.0	709.3
172.5°	715.5	712.4	713.5	717.1	712.4
175°	718.1	714.5	715.5	719.2	714.0
177.5°	719.2	715.5	716.1	719.7	715.0
180°	716.6	716.6	716.6	716.6	716.6

(END OF REPORT)