

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: P1009302

Luminaire Tested: S122DIP-B675D530UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009302
REPORT IS A COMBINATION OF REPORTS P984543 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB27-4F0-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

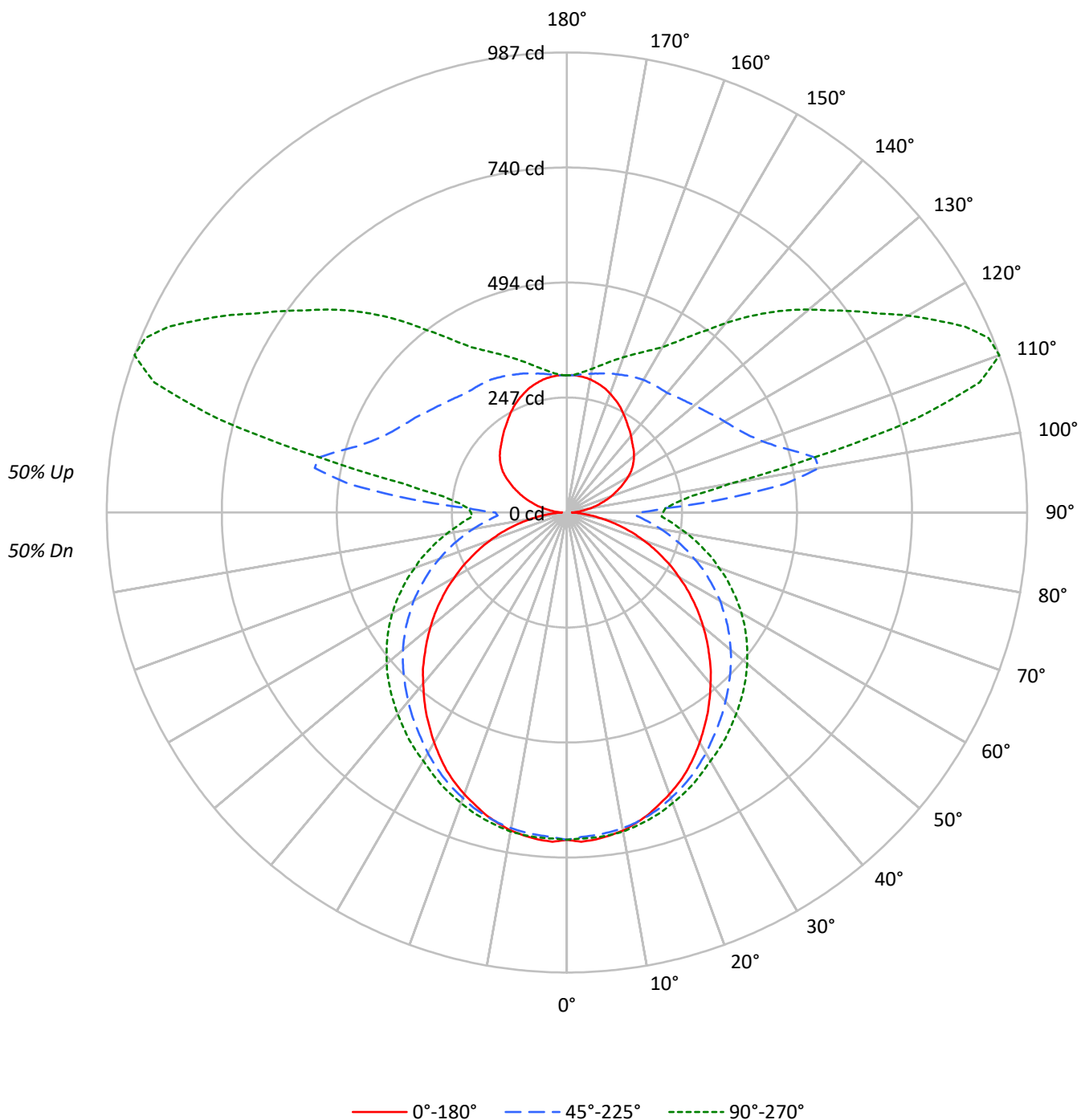
Lumens per Lamp: N/A
Luminaire Lumens: 4734.4 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.4
10°-20°	190.9	4.0
20°-30°	289.2	6.1
30°-40°	352.2	7.4
40°-50°	379.0	8.0
50°-60°	368.0	7.8
60°-70°	321.4	6.8
70°-80°	247.4	5.2
80°-90°	167.6	3.5
90°-100°	233.7	4.9
100°-110°	487.1	10.3
110°-120°	479.4	10.1
120°-130°	379.6	8.0
130°-140°	293.3	6.2
140°-150°	214.0	4.5
150°-160°	148.9	3.1
160°-170°	87.7	1.9
170°-180°	28.5	0.6
0°-30°	546.7	11.5
0°-40°	898.9	19.0
0°-60°	1645.9	34.8
0°-90°	2382.2	50.3
90°-120°	1200.2	25.4
90°-150°	2087.1	44.1
90°-180°	2352.0	49.7
0°-180°	4734.4	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	77	154	193	206	8
95°	28	105	339	240	232	27
105°	74	139	507	873	773	79
115°	126	169	412	816	943	124
125°	172	203	372	649	753	153
135°	200	239	345	526	605	155
145°	228	262	332	418	462	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°	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°	10.8	76.9	153.6	193.4	205.9
92.5°	17.7	90.0	212.4	205.0	211.7
95°	27.9	104.7	339.0	239.6	232.5
97.5°	36.6	115.2	471.8	315.7	268.0
100°	50.7	123.6	549.3	474.4	353.4
102.5°	62.7	131.4	544.9	697.7	537.8
105°	74.2	138.8	507.2	873.3	772.6
107.5°	87.8	146.2	471.8	931.8	928.2
110°	100.4	153.8	446.4	912.8	986.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.8	162.0	426.9	869.2	978.6
115°	125.9	169.0	412.3	816.3	942.8
117.5°	138.5	177.1	400.5	766.4	892.7
120°	150.9	185.0	390.5	720.0	845.3
122.5°	162.8	194.1	382.1	683.2	794.3
125°	171.9	203.0	372.2	649.2	752.6
127.5°	180.4	212.6	364.4	618.0	712.2
130°	187.8	221.9	357.1	587.7	677.4
132.5°	194.6	231.0	350.5	556.6	642.5
135°	200.4	238.9	344.8	526.0	605.4
137.5°	206.6	245.6	339.7	494.9	568.4
140°	214.0	251.0	335.0	466.9	530.2
142.5°	221.3	256.0	333.0	440.7	493.1
145°	227.7	261.6	331.9	418.2	462.1
147.5°	235.6	266.2	330.2	398.6	432.9
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)