

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: P1009428

Luminaire Tested: S122DIP-B675D925UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009428
REPORT IS A COMBINATION OF REPORTS P984714 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB50-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

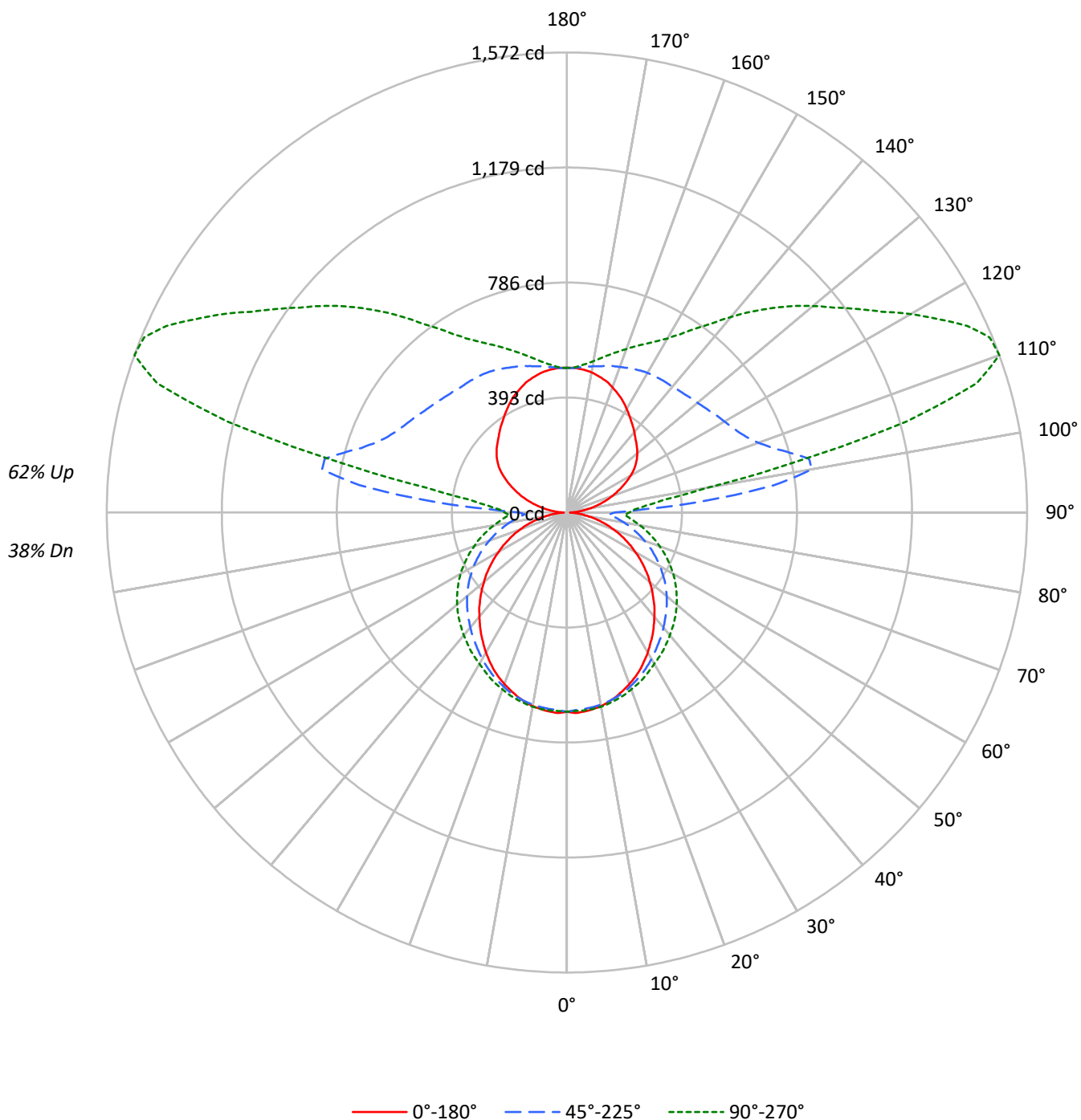
Lumens per Lamp: N/A
Luminaire Lumens: 6046.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 64.4
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38		
1	94	89	85	81	85	81	77	74	66	63	61	51	50	48	38	37	36	30		
2	85	77	71	65	77	70	65	60	57	53	49	44	42	39	33	31	29	24		
3	77	67	60	54	70	61	55	49	50	45	41	39	35	32	29	26	24	20		
4	71	59	51	45	64	54	47	41	44	39	34	34	31	27	26	23	21	17		
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18	14		
6	59	47	39	33	53	43	36	30	35	29	25	28	24	20	21	18	16	12		
7	55	42	34	29	49	39	32	26	32	26	22	25	21	18	19	16	14	11		
8	51	38	30	25	46	35	28	23	29	23	20	23	19	16	17	14	12	10		
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11	9		
10	44	32	25	20	40	29	23	18	24	19	15	19	15	13	15	12	10	8		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.1
10°-20°	185.1	3.1
20°-30°	280.5	4.6
30°-40°	341.6	5.6
40°-50°	367.5	6.1
50°-60°	356.9	5.9
60°-70°	311.7	5.2
70°-80°	239.9	4.0
80°-90°	163.8	2.7
90°-100°	311.2	5.1
100°-110°	758.1	12.5
110°-120°	765.2	12.7
120°-130°	615.1	10.2
130°-140°	482.8	8.0
140°-150°	357.4	5.9
150°-160°	249.8	4.1
160°-170°	147.1	2.4
170°-180°	47.8	0.8
0°-30°	530.2	8.8
0°-40°	871.7	14.4
0°-60°	1596.1	26.4
0°-90°	2311.5	38.2
90°-120°	1834.4	30.3
90°-150°	3289.8	54.4
90°-180°	3734.0	61.8
0°-180°	6046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	11	80	163	201	213	9
95°	41	136	486	292	271	41
105°	121	208	789	1378	1201	129
115°	208	273	648	1305	1509	206
125°	287	339	600	1045	1212	256
135°	336	400	570	859	987	259
145°	382	439	557	697	767	240
155°	434	469	541	611	636	200
165°	473	487	518	549	558	133
175°	493	494	498	504	503	47
180°	494	494	494	494	494	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	10.9	79.9	162.6	200.6	213.0
92.5°	23.2	106.4	267.7	227.4	229.7
95°	41.2	136.0	486.0	291.6	271.1
97.5°	56.3	157.1	713.8	425.3	336.4
100°	80.1	175.5	849.3	697.2	486.2
102.5°	100.9	192.4	847.2	1077.4	801.3
105°	120.8	208.4	789.0	1377.9	1201.1
107.5°	143.6	224.3	734.6	1481.6	1467.8
110°	165.4	240.8	696.3	1455.6	1572.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.3	257.2	668.5	1387.5	1563.3
115°	208.2	272.8	648.3	1304.6	1508.8
117.5°	230.1	289.3	633.8	1225.9	1430.6
120°	251.0	305.2	621.2	1153.8	1356.2
122.5°	270.9	322.7	611.5	1097.1	1277.0
125°	287.0	339.3	599.9	1045.0	1212.1
127.5°	301.3	355.9	591.0	998.6	1150.1
130°	313.7	371.6	583.2	952.8	1097.5
132.5°	325.1	386.8	576.4	905.5	1044.1
135°	335.5	400.1	570.5	859.2	986.8
137.5°	345.9	411.4	565.5	812.4	930.5
140°	358.3	421.0	560.7	770.3	872.2
142.5°	370.6	429.5	558.7	730.6	814.9
145°	382.0	439.0	556.8	697.2	767.2
147.5°	395.3	446.6	553.9	668.0	723.2
150°	408.6	454.2	551.1	646.2	687.0
152.5°	421.9	461.8	546.3	628.6	659.4
155°	434.2	468.9	540.6	611.4	635.7
157.5°	444.7	474.6	534.9	595.3	614.8
160°	455.1	480.3	529.2	579.2	594.8
162.5°	465.6	484.6	524.5	563.9	575.8
165°	473.2	487.4	517.8	549.2	557.7
167.5°	479.8	490.3	512.1	535.9	540.6
170°	486.5	491.7	507.4	523.6	525.4
172.5°	490.3	493.2	501.7	512.6	513.1
175°	493.1	493.6	497.9	504.0	502.6
177.5°	495.0	494.1	494.1	497.9	495.0
180°	494.1	494.1	494.1	494.1	494.1

(END OF REPORT)