

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: P1009338

Luminaire Tested: S122DIP-B675D530UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009338
REPORT IS A COMBINATION OF REPORTS P984594 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB50-4F0-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

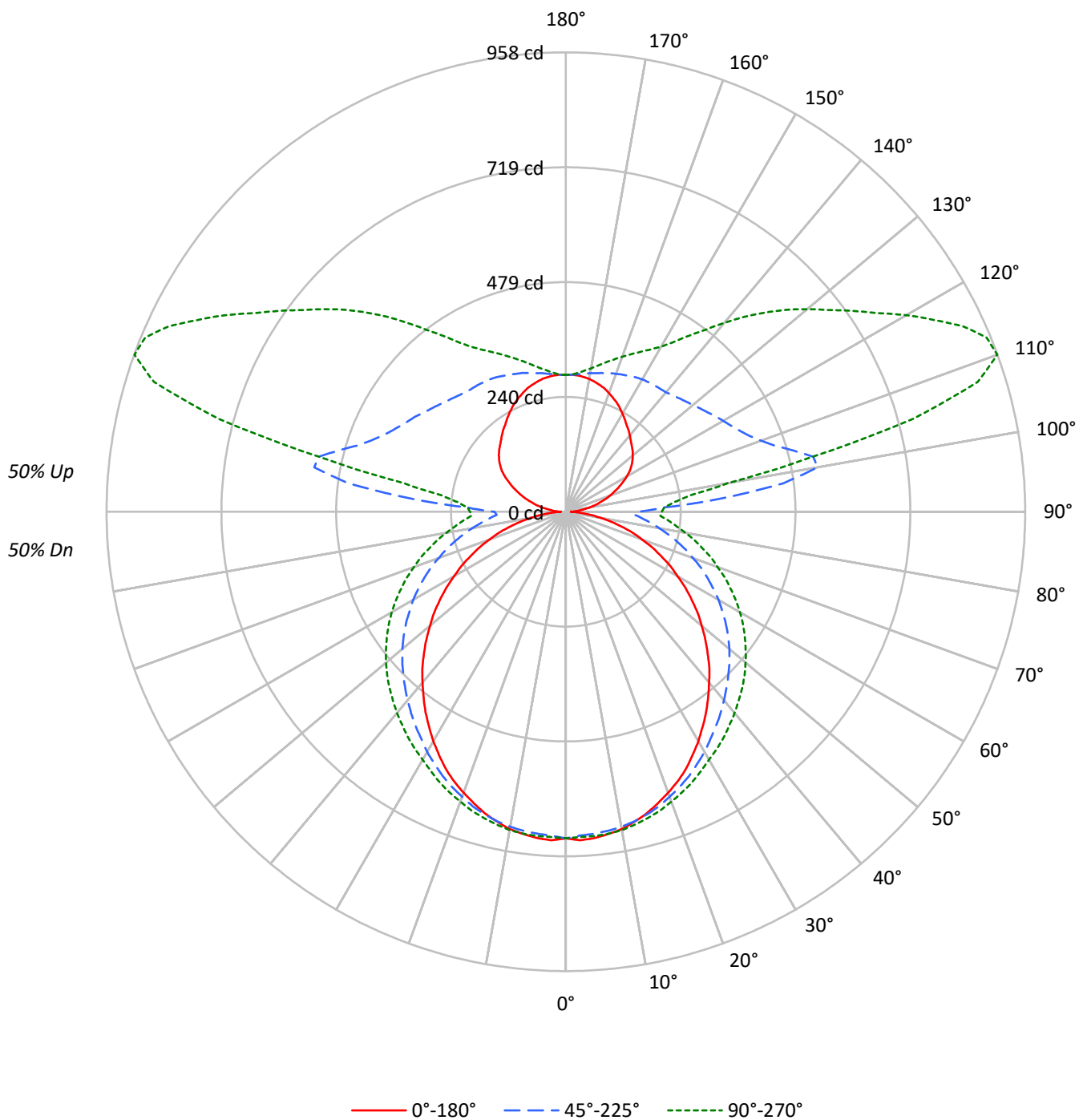
Lumens per Lamp: N/A
Luminaire Lumens: 4592.3 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
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°	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	1.4
10°-20°	185.1	4.0
20°-30°	280.5	6.1
30°-40°	341.6	7.4
40°-50°	367.5	8.0
50°-60°	356.9	7.8
60°-70°	311.7	6.8
70°-80°	239.9	5.2
80°-90°	162.5	3.5
90°-100°	226.7	4.9
100°-110°	472.6	10.3
110°-120°	465.1	10.1
120°-130°	368.3	8.0
130°-140°	284.5	6.2
140°-150°	207.6	4.5
150°-160°	144.5	3.1
160°-170°	85.1	1.9
170°-180°	27.7	0.6
0°-30°	530.2	11.5
0°-40°	871.7	19.0
0°-60°	1596.1	34.8
0°-90°	2310.2	50.3
90°-120°	1164.4	25.4
90°-150°	2024.9	44.1
90°-180°	2282.0	49.7
0°-180°	4592.3	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°	10	74	149	188	200	8
95°	27	102	329	232	226	26
105°	72	135	492	847	750	77
115°	122	164	400	792	915	121
125°	167	197	361	630	730	149
135°	194	232	335	510	587	151
145°	221	254	322	406	448	139
155°	251	271	313	354	368	116
165°	274	282	300	318	323	77
175°	285	286	288	292	291	27
180°	286	286	286	286	286	

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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°	10.4	74.5	149.0	187.5	199.7
92.5°	17.1	87.3	206.0	198.9	205.2
95°	27.1	101.6	328.9	232.4	225.5
97.5°	35.5	111.7	457.8	306.3	259.9
100°	49.2	119.8	532.9	460.2	342.7
102.5°	60.9	127.5	528.7	676.9	521.7
105°	71.9	134.7	492.1	847.3	749.7
107.5°	85.1	141.8	457.8	904.0	900.6
110°	97.3	149.2	433.1	885.6	957.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.4	157.0	414.1	843.2	949.5
115°	122.1	164.0	399.9	792.0	914.7
117.5°	134.3	171.9	388.6	743.6	866.1
120°	146.4	179.5	378.9	698.6	820.2
122.5°	158.0	188.3	370.8	662.8	770.7
125°	166.9	197.1	361.1	629.8	730.2
127.5°	175.1	206.2	353.5	599.6	691.0
130°	182.3	215.3	346.5	570.2	657.3
132.5°	188.9	224.1	340.0	540.0	623.5
135°	194.4	231.8	334.6	510.3	587.4
137.5°	200.5	238.4	329.6	480.3	551.5
140°	207.6	243.4	325.1	453.1	514.5
142.5°	214.8	248.4	323.1	427.6	478.4
145°	220.9	253.9	322.0	405.7	448.4
147.5°	228.6	258.3	320.4	386.8	419.9
150°	236.3	262.6	318.8	373.8	397.3
152.5°	244.0	267.1	316.0	363.5	381.4
155°	251.2	271.2	312.7	353.6	367.7
157.5°	257.2	274.5	309.4	344.3	355.6
160°	263.2	277.8	306.1	335.0	344.0
162.5°	269.3	280.3	303.4	326.2	333.0
165°	273.7	282.0	299.5	317.7	322.6
167.5°	277.5	283.6	296.2	310.0	312.7
170°	281.4	284.4	293.5	302.8	303.9
172.5°	283.6	285.2	290.2	296.5	296.8
175°	285.2	285.5	288.0	291.6	290.7
177.5°	286.3	285.8	285.8	288.0	286.3
180°	285.8	285.8	285.8	285.8	285.8

(END OF REPORT)