

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: P1009382

Luminaire Tested: S122DIP-B675D725UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009382
REPORT IS A COMBINATION OF REPORTS P984653 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

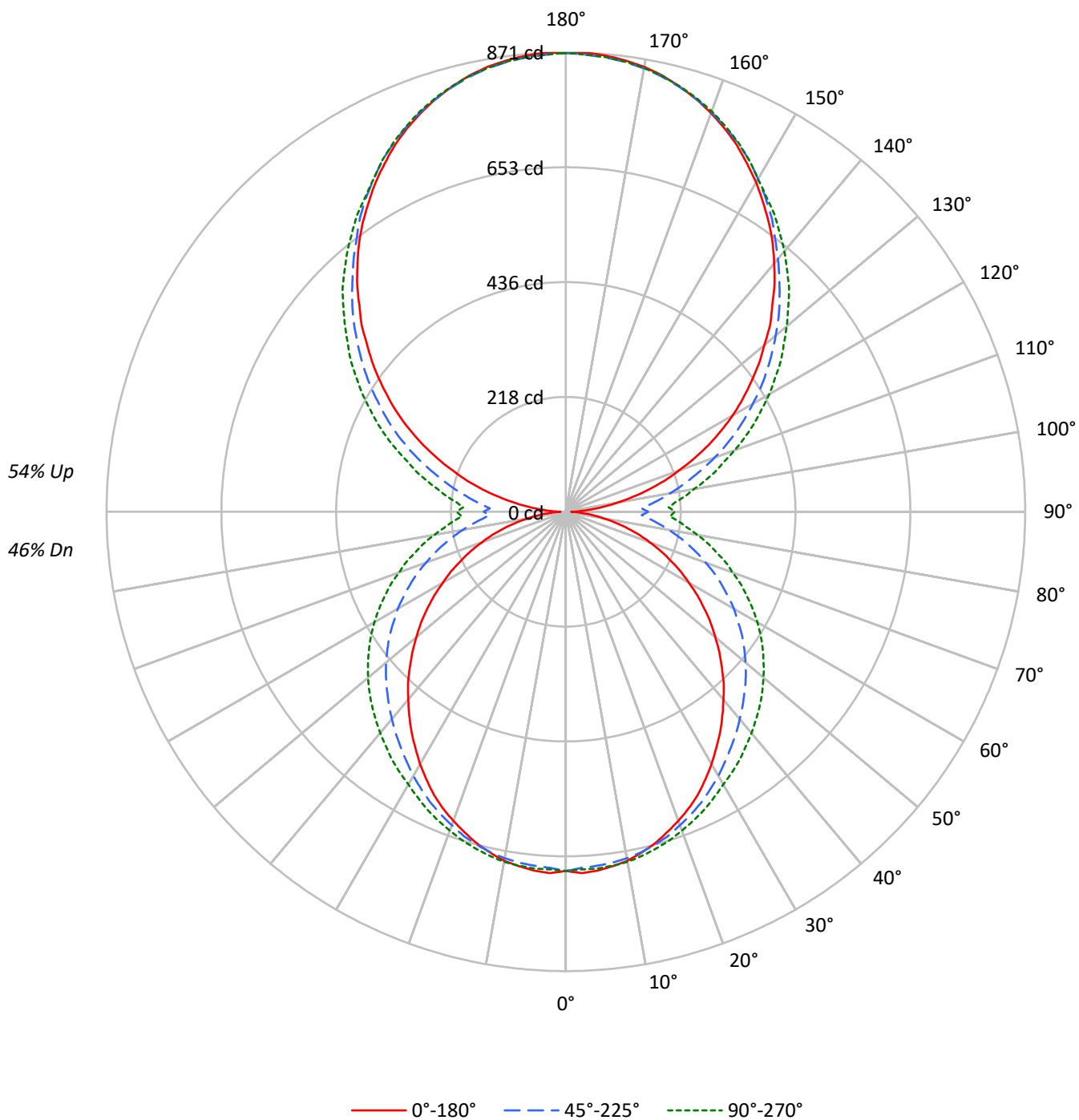
Lumens per Lamp: N/A
Luminaire Lumens: 5032.1 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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

TEST NUMBER: P1009382

CATALOG NUMBER: S122DIP-B675D725UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1009382

CATALOG NUMBER: S122DIP-B675D725UB50-4F0-XX-W2A-D1

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46	46	46
1	95	91	86	82	87	83	79	76	69	66	64	56	54	52	44	43	41	36	36	36
2	86	78	72	66	79	72	66	61	60	55	52	48	45	43	38	36	34	29	29	29
3	78	68	61	54	71	63	56	50	52	47	43	42	39	35	33	31	28	24	24	24
4	72	60	52	46	65	55	48	42	46	40	36	37	33	30	29	26	24	20	20	20
5	66	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	21	17	17	17
6	60	48	39	33	55	44	36	31	37	31	27	30	26	22	24	21	18	15	15	15
7	56	43	35	29	51	40	32	27	33	27	23	27	23	20	22	18	16	13	13	13
8	52	39	31	25	47	36	29	24	30	25	21	25	20	17	20	17	14	12	12	12
9	48	35	28	23	44	33	26	21	28	22	18	23	19	15	18	15	13	10	10	10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11	9	9	9

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

TEST NUMBER: P1009382

CATALOG NUMBER: S122DIP-B675D725UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.3
10°-20°	185.1	3.7
20°-30°	280.5	5.6
30°-40°	341.6	6.8
40°-50°	367.5	7.3
50°-60°	356.9	7.1
60°-70°	311.7	6.2
70°-80°	239.9	4.8
80°-90°	163.1	3.2
90°-100°	164.7	3.3
100°-110°	252.0	5.0
110°-120°	346.1	6.9
120°-130°	414.7	8.2
130°-140°	444.5	8.8
140°-150°	425.8	8.5
150°-160°	355.4	7.1
160°-170°	235.7	4.7
170°-180°	82.4	1.6
0°-30°	530.2	10.5
0°-40°	871.7	17.3
0°-60°	1596.1	31.7
0°-90°	2310.8	45.9
90°-120°	762.8	15.2
90°-150°	2047.8	40.7
90°-180°	2721.0	54.1
0°-180°	5032.1	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	77	156	194	207	9
95°	46	100	160	198	208	49
105°	163	194	246	282	293	172
115°	298	313	356	385	393	294
125°	429	436	465	490	498	384
135°	554	562	573	593	599	428
145°	671	676	680	687	689	419
155°	767	769	771	775	773	353
165°	834	834	834	839	835	235
175°	868	866	865	870	865	82
180°	870	870	870	870	870	

TEST NUMBER: P1009382

CATALOG NUMBER: S122DIP-B675D725UB50-4F0-XX-W2A-D1

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°	10.6	76.6	156.0	193.9	206.6
92.5°	25.0	83.2	144.2	183.4	195.2
95°	46.1	99.8	160.5	198.0	208.3
97.5°	70.8	119.8	180.0	216.5	228.3
100°	100.1	142.5	200.0	236.5	246.5
102.5°	129.9	166.9	223.2	259.4	269.5
105°	162.7	193.6	246.4	282.3	293.2
107.5°	196.5	223.1	272.5	306.7	314.0
110°	227.7	252.0	300.3	331.9	340.5

TEST NUMBER: P1009382

CATALOG NUMBER: S122DIP-B675D725UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	263.0	283.2	327.8	357.2	366.7
115°	297.5	312.8	355.7	384.6	393.3
117.5°	331.1	344.8	382.6	410.0	417.7
120°	365.6	375.3	409.0	436.6	445.3
122.5°	397.1	405.4	438.3	462.7	470.1
125°	429.1	435.8	465.1	489.5	497.7
127.5°	461.4	468.5	492.2	513.9	520.6
130°	491.5	500.1	519.3	541.5	546.5
132.5°	525.3	531.6	547.2	566.2	571.9
135°	553.6	561.7	573.1	593.1	598.8
137.5°	585.9	592.5	598.9	617.0	620.9
140°	614.6	620.2	625.8	641.6	644.6
142.5°	643.9	649.5	651.7	664.3	666.3
145°	670.8	675.9	680.4	687.0	689.0
147.5°	695.8	702.4	705.3	707.8	707.7
150°	721.4	725.9	728.8	731.0	728.8
152.5°	744.2	748.6	752.3	755.2	752.3
155°	767.0	769.2	771.4	775.0	772.8
157.5°	786.8	788.2	789.7	794.8	791.2
160°	804.4	805.9	806.6	811.0	808.1
162.5°	820.5	820.5	821.3	826.4	822.7
165°	834.5	833.7	833.7	838.9	835.2
167.5°	847.0	844.7	844.7	849.9	846.2
170°	856.5	854.3	853.6	858.7	854.3
172.5°	863.1	860.9	860.2	865.3	860.9
175°	868.2	866.0	864.6	869.7	865.3
177.5°	871.2	869.0	867.5	871.9	867.5
180°	869.7	869.7	869.7	869.7	869.7

(END OF REPORT)