

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: P1009365

Luminaire Tested: S122DIP-B675D725UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009365
REPORT IS A COMBINATION OF REPORTS P984636 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

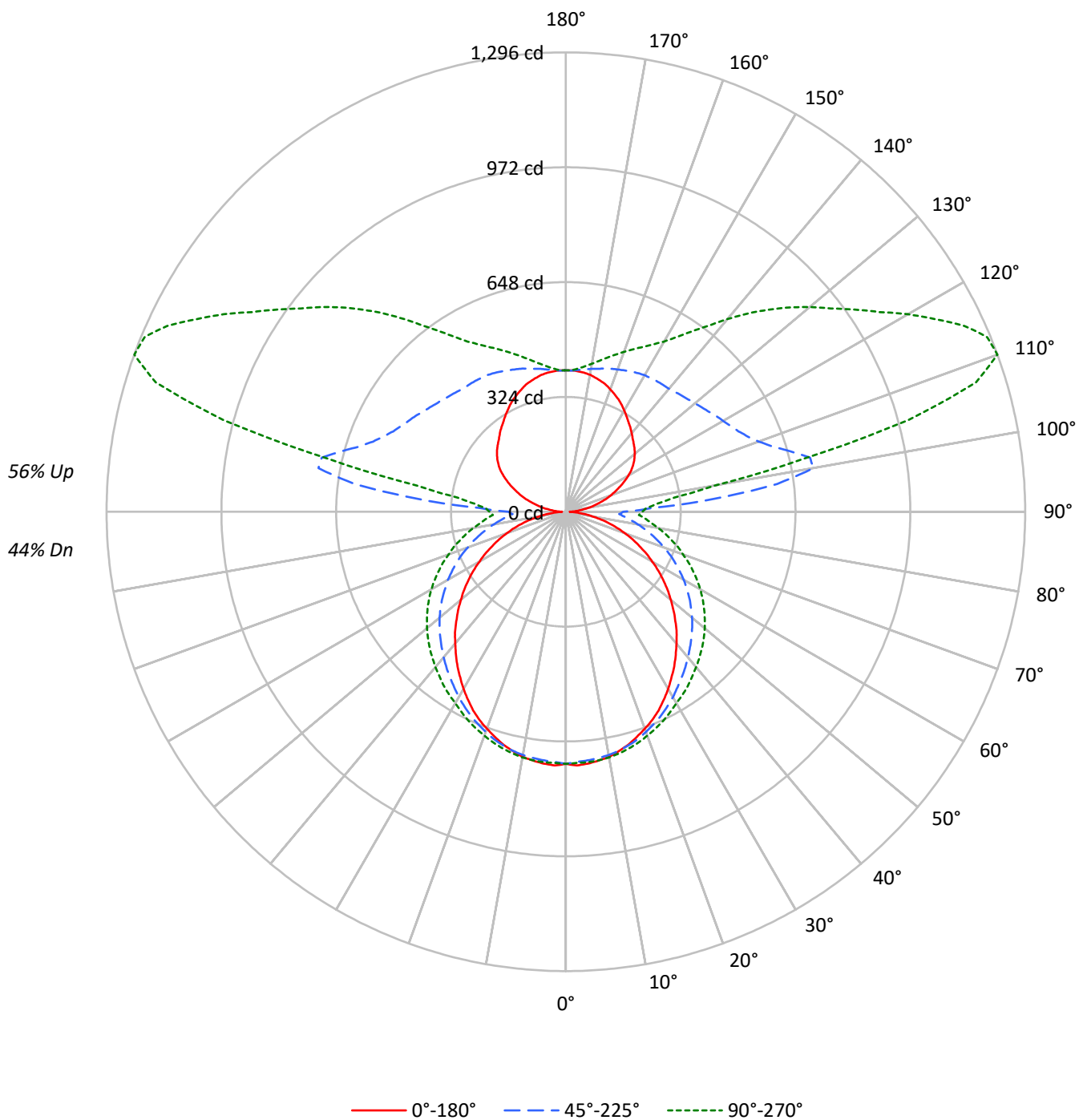
Lumens per Lamp: N/A
Luminaire Lumens: 5496.1 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1009365

CATALOG NUMBER: S122DIP-B675D725UB35-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1009365

CATALOG NUMBER: S122DIP-B675D725UB35-4F0-XX-W2A-D4

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	95	90	86	82	87	83	79	75	68	65	63	55	53	51	43	41	40
2	86	78	71	66	78	71	66	61	59	55	51	47	44	42	37	35	33
3	78	68	60	54	71	62	56	50	51	46	42	41	38	35	32	29	27
4	71	60	52	45	65	55	48	42	45	40	36	37	33	29	28	26	23
5	65	53	45	39	59	49	41	36	40	35	30	33	28	25	25	22	20
6	60	48	39	33	54	44	36	31	36	31	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	14
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	18	15	12
10	44	32	25	20	41	30	23	19	25	20	16	21	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

TEST NUMBER: P1009365

CATALOG NUMBER: S122DIP-B675D725UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.2
10°-20°	193.4	3.5
20°-30°	293.0	5.3
30°-40°	356.8	6.5
40°-50°	383.9	7.0
50°-60°	372.8	6.8
60°-70°	325.6	5.9
70°-80°	250.6	4.6
80°-90°	170.4	3.1
90°-100°	277.4	5.0
100°-110°	630.9	11.5
110°-120°	630.2	11.5
120°-130°	503.4	9.2
130°-140°	392.6	7.1
140°-150°	288.9	5.3
150°-160°	201.6	3.7
160°-170°	118.7	2.2
170°-180°	38.6	0.7
0°-30°	553.8	10.1
0°-40°	910.7	16.6
0°-60°	1667.4	30.3
0°-90°	2414.0	43.9
90°-120°	1538.5	28.0
90°-150°	2723.3	49.6
90°-180°	3082.0	56.1
0°-180°	5496.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	11	80	162	202	215	9
95°	35	123	419	271	258	34
105°	99	176	657	1140	1000	105
115°	169	224	537	1074	1241	167
125°	232	274	492	858	994	207
135°	271	323	463	701	806	210
145°	308	354	449	564	622	194
155°	350	378	436	493	513	161
165°	382	393	418	443	450	108
175°	398	398	402	407	406	38
180°	399	399	399	399	399	

TEST NUMBER: P1009365

CATALOG NUMBER: S122DIP-B675D725UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	11.1	80.4	162.2	202.2	215.0
92.5°	20.8	100.3	244.9	221.4	226.2
95°	35.0	122.6	419.0	271.2	257.5
97.5°	47.1	138.6	601.2	377.2	308.2
100°	66.2	152.0	708.8	594.7	427.1
102.5°	82.9	164.4	705.4	899.7	679.5
105°	98.7	176.0	656.8	1140.1	1000.2
107.5°	117.1	187.8	611.2	1222.1	1213.4
110°	134.4	199.9	579.0	1199.2	1295.7

TEST NUMBER: P1009365

CATALOG NUMBER: S122DIP-B675D725UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	151.3	212.3	554.9	1142.6	1287.0
115°	168.9	223.6	537.3	1073.8	1241.1
117.5°	186.3	236.0	523.8	1008.7	1176.2
120°	203.2	248.0	512.3	948.6	1114.5
122.5°	219.3	261.3	503.1	901.2	1048.5
125°	232.1	274.2	492.0	857.6	994.5
127.5°	243.6	287.4	483.6	818.2	942.5
130°	253.6	300.0	475.8	779.6	898.3
132.5°	262.8	312.2	468.9	739.8	853.4
135°	270.9	323.0	462.9	700.8	805.6
137.5°	279.3	332.2	457.8	661.4	758.3
140°	289.3	339.6	452.9	625.8	709.4
142.5°	299.2	346.5	450.8	592.4	661.5
145°	308.2	354.2	449.3	564.0	621.6
147.5°	318.9	360.4	447.0	539.2	584.5
150°	329.7	366.5	444.7	521.4	554.3
152.5°	340.4	372.6	440.9	507.2	532.1
155°	350.4	378.4	436.3	493.4	512.9
157.5°	358.8	383.0	431.7	480.4	496.1
160°	367.2	387.6	427.1	467.3	480.0
162.5°	375.7	391.0	423.2	455.0	464.6
165°	381.8	393.3	417.9	443.2	450.1
167.5°	387.2	395.6	413.3	432.4	436.3
170°	392.5	396.8	409.4	422.4	424.0
172.5°	395.6	397.9	404.8	413.6	414.0
175°	397.9	398.3	401.7	406.7	405.6
177.5°	399.4	398.7	398.7	401.7	399.4
180°	398.7	398.7	398.7	398.7	398.7

(END OF REPORT)