

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: P1008698

Luminaire Tested: S122DIP-B1005D725UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008698
REPORT IS A COMBINATION OF REPORTS P983735 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D725UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

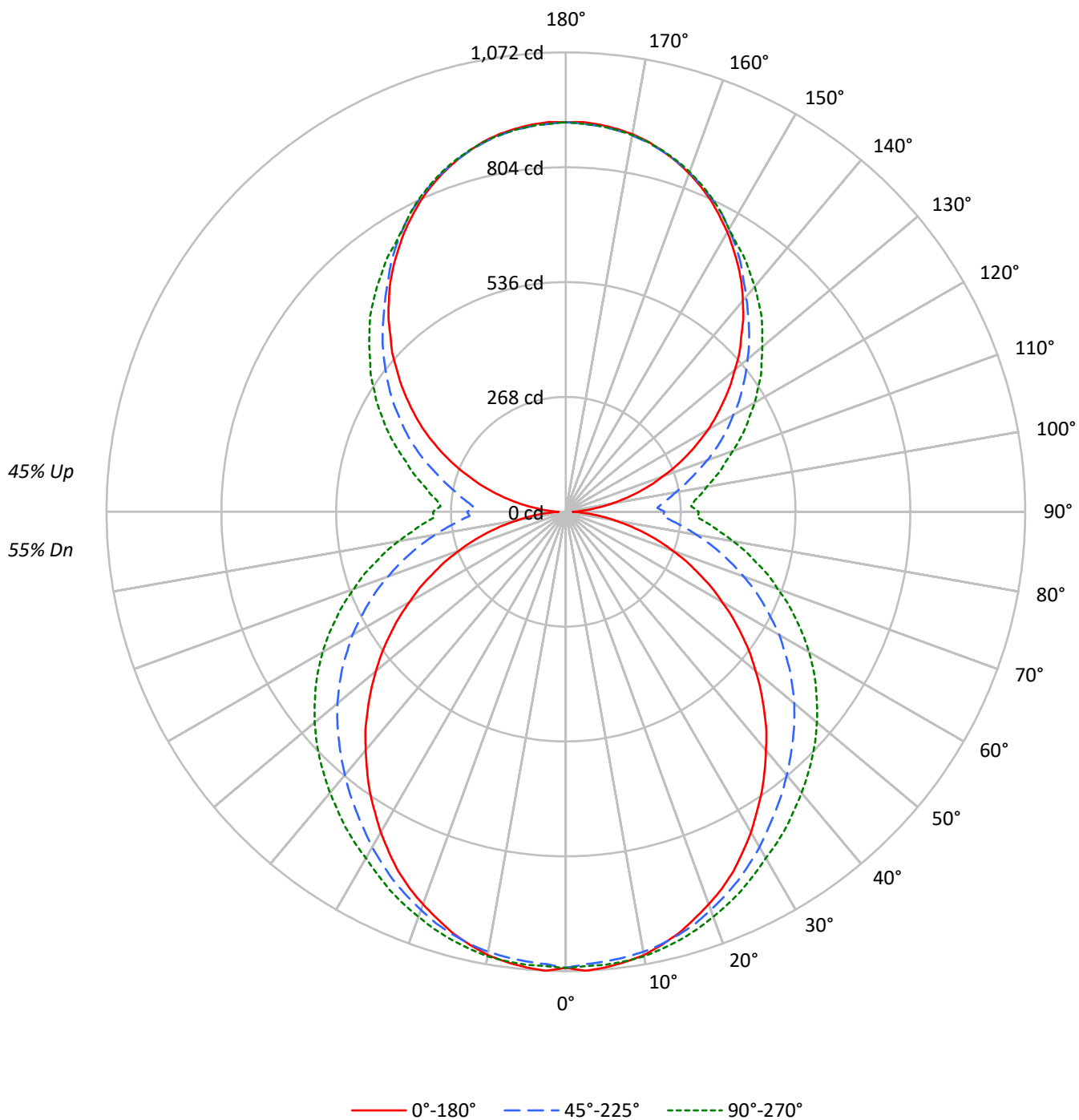
Lumens per Lamp: N/A
Luminaire Lumens: 6604.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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

TEST NUMBER: P1008698

CATALOG NUMBER: S122DIP-B1005D725UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1008698

CATALOG NUMBER: S122DIP-B1005D725UB35-4F0-XX-W2A-D1

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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	97	92	88	83	90	85	81	78	73	70	67	61	59	57	51	49	48
2	88	80	73	67	81	74	68	63	63	58	54	53	50	46	44	41	39
3	80	69	61	55	73	64	57	52	55	49	45	46	42	39	38	35	32
4	73	61	53	46	67	57	49	43	49	43	38	41	36	33	34	30	28
5	67	54	46	39	61	50	43	37	43	37	32	37	32	28	30	27	24
6	61	48	40	34	56	45	37	32	39	33	28	33	28	24	27	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18
8	52	40	31	26	48	37	30	25	32	26	22	27	22	19	23	19	16
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

TEST NUMBER: P1008698

CATALOG NUMBER: S122DIP-B1005D725UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.5
10°-20°	289.4	4.4
20°-30°	438.5	6.6
30°-40°	533.9	8.1
40°-50°	574.5	8.7
50°-60°	557.9	8.4
60°-70°	487.2	7.4
70°-80°	375.0	5.7
80°-90°	253.7	3.8
90°-100°	229.5	3.5
100°-110°	305.2	4.6
110°-120°	389.3	5.9
120°-130°	448.7	6.8
130°-140°	470.9	7.1
140°-150°	445.9	6.8
150°-160°	371.3	5.6
160°-170°	246.2	3.7
170°-180°	86.1	1.3
0°-30°	828.7	12.5
0°-40°	1362.6	20.6
0°-60°	2495.0	37.8
0°-90°	3610.9	54.7
90°-120°	924.0	14.0
90°-150°	2289.5	34.7
90°-180°	2993.0	45.3
0°-180°	6604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	16	115	230	291	310	13
95°	52	132	226	285	302	54
105°	173	220	301	357	374	183
115°	313	334	402	448	462	309
125°	449	456	503	543	556	402
135°	579	587	604	636	646	448
145°	701	706	711	721	726	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

TEST NUMBER: P1008698

CATALOG NUMBER: S122DIP-B1005D725UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	16.2	114.9	230.4	290.6	309.9
92.5°	30.8	118.6	213.5	274.4	292.9
95°	52.2	132.3	226.5	285.1	302.0
97.5°	77.5	150.7	243.3	300.4	318.9
100°	108.2	171.4	260.0	317.1	333.4
102.5°	138.9	194.4	280.7	337.0	353.2
105°	172.6	219.6	301.4	356.8	373.8
107.5°	207.8	247.9	325.1	378.3	391.4
110°	240.1	275.5	351.1	400.5	415.1

TEST NUMBER: P1008698

CATALOG NUMBER: S122DIP-B1005D725UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.9	306.1	376.3	423.4	438.8
115°	312.9	334.4	402.3	447.8	462.5
117.5°	347.4	365.9	426.9	470.8	483.9
120°	383.4	395.7	451.3	494.5	509.2
122.5°	416.4	425.6	478.8	518.2	530.6
125°	449.4	456.3	503.3	542.7	555.8
127.5°	483.1	489.9	528.6	564.1	575.6
130°	514.6	522.9	553.8	589.4	598.6
132.5°	549.8	555.9	579.9	611.5	621.5
135°	578.9	587.3	604.4	636.0	646.0
137.5°	612.6	619.5	628.9	657.4	665.1
140°	642.5	647.9	654.9	679.6	685.7
142.5°	673.2	678.6	680.9	700.2	704.8
145°	700.8	706.2	710.8	720.9	725.5
147.5°	726.9	733.8	736.9	739.9	741.6
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

(END OF REPORT)