

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: P1008680

Luminaire Tested: S122DIP-B1005D725UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008680
REPORT IS A COMBINATION OF REPORTS P983702 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D725UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

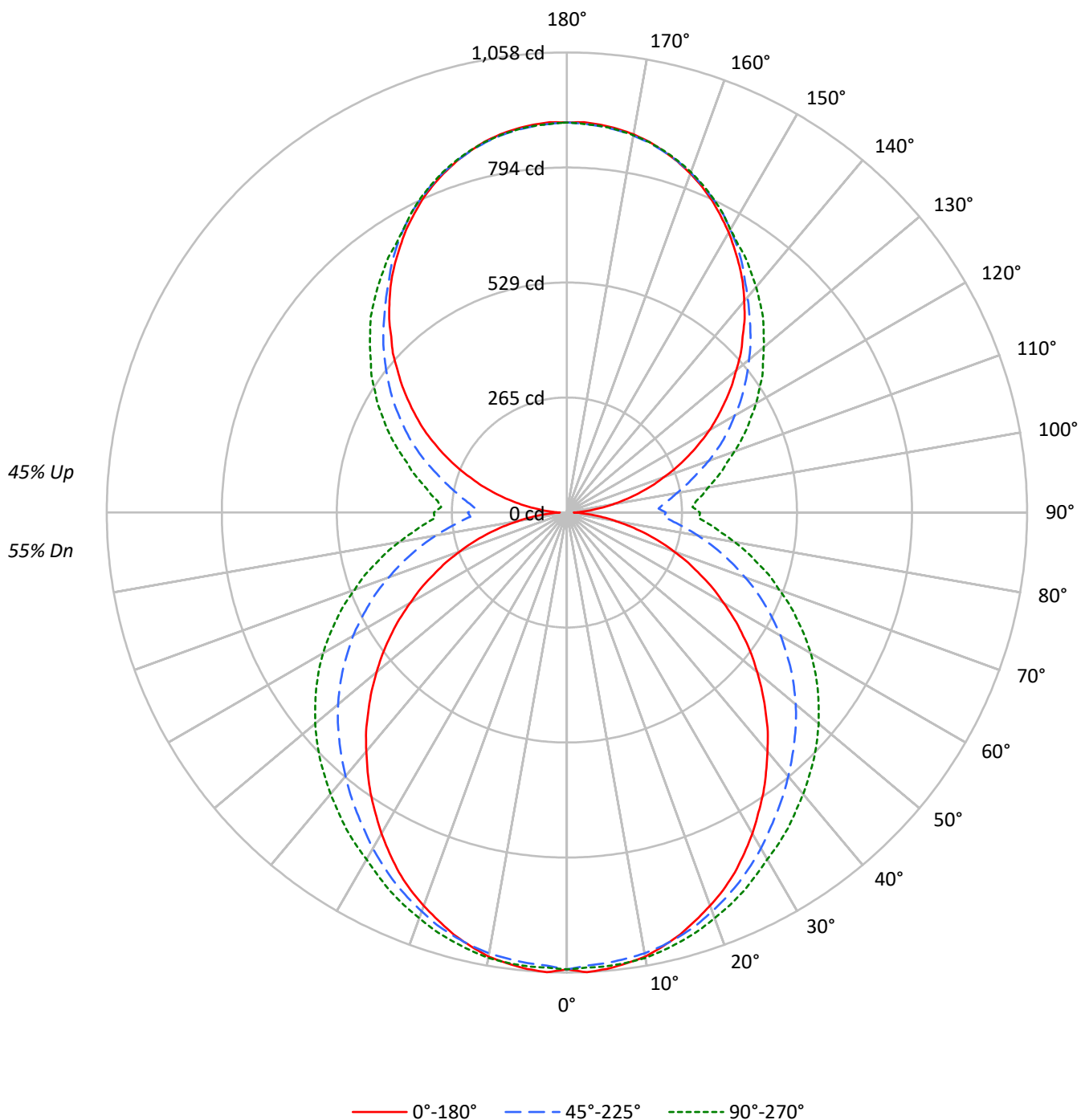
Lumens per Lamp: N/A
Luminaire Lumens: 6519.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1008680

CATALOG NUMBER: S122DIP-B1005D725UB27-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1008680

CATALOG NUMBER: S122DIP-B1005D725UB27-4F0-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°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

TEST NUMBER: P1008680

CATALOG NUMBER: S122DIP-B1005D725UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.5
10°-20°	285.7	4.4
20°-30°	432.8	6.6
30°-40°	527.1	8.1
40°-50°	567.1	8.7
50°-60°	550.7	8.4
60°-70°	481.0	7.4
70°-80°	370.2	5.7
80°-90°	250.5	3.8
90°-100°	226.5	3.5
100°-110°	301.3	4.6
110°-120°	384.3	5.9
120°-130°	442.8	6.8
130°-140°	464.8	7.1
140°-150°	440.1	6.8
150°-160°	366.5	5.6
160°-170°	243.1	3.7
170°-180°	84.9	1.3
0°-30°	818.1	12.5
0°-40°	1345.2	20.6
0°-60°	2463.0	37.8
0°-90°	3564.6	54.7
90°-120°	912.1	14.0
90°-150°	2259.9	34.7
90°-180°	2954.0	45.3
0°-180°	6519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	113	228	287	306	13
95°	52	131	224	281	298	54
105°	170	217	298	352	369	180
115°	309	330	397	442	456	305
125°	444	450	497	536	549	397
135°	571	580	596	628	638	442
145°	692	697	702	712	716	433
155°	791	793	795	799	797	364
165°	860	860	860	865	861	243
175°	895	893	892	897	892	85
180°	897	897	897	897	897	

TEST NUMBER: P1008680

CATALOG NUMBER: S122DIP-B1005D725UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	16.0	113.3	227.5	286.9	305.9
92.5°	30.4	117.1	210.8	270.9	289.2
95°	51.6	130.6	223.5	281.4	298.1
97.5°	76.5	148.8	240.2	296.5	314.8
100°	106.8	169.2	256.7	313.0	329.1
102.5°	137.0	191.8	277.1	332.6	348.7
105°	170.3	216.8	297.5	352.2	369.0
107.5°	205.1	244.8	320.9	373.4	386.3
110°	236.9	271.9	346.6	395.3	409.7

TEST NUMBER: P1008680

CATALOG NUMBER: S122DIP-B1005D725UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	273.3	302.2	371.4	417.9	433.2
115°	308.8	330.1	397.2	442.0	456.5
117.5°	342.9	361.1	421.3	464.7	477.6
120°	378.5	390.6	445.5	488.1	502.6
122.5°	411.0	420.1	472.6	511.4	523.6
125°	443.5	450.3	496.8	535.7	548.6
127.5°	476.8	483.6	521.7	556.8	568.2
130°	507.8	516.2	546.6	581.6	590.8
132.5°	542.6	548.7	572.4	603.6	613.5
135°	571.4	579.7	596.4	627.7	637.6
137.5°	604.7	611.5	620.6	648.9	656.4
140°	634.2	639.5	646.3	670.7	676.8
142.5°	664.5	669.8	672.1	691.1	695.7
145°	691.8	697.1	701.6	711.5	716.0
147.5°	717.5	724.3	727.3	730.3	731.9
150°	744.0	748.5	751.5	753.8	751.5
152.5°	767.4	772.0	775.8	778.8	775.8
155°	790.9	793.2	795.4	799.2	797.0
157.5°	811.3	812.8	814.4	819.7	815.9
160°	829.5	831.0	831.8	836.3	833.3
162.5°	846.2	846.2	846.9	852.2	848.4
165°	860.5	859.8	859.8	865.1	861.3
167.5°	873.4	871.1	871.1	876.4	872.6
170°	883.2	881.0	880.2	885.5	881.0
172.5°	890.0	887.8	887.0	892.3	887.8
175°	895.3	893.1	891.6	896.9	892.3
177.5°	898.4	896.1	894.6	899.1	894.6
180°	896.9	896.9	896.9	896.9	896.9

(END OF REPORT)