

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: P1008201

Luminaire Tested: S122DIP-B675D725UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008201
REPORT IS A COMBINATION OF REPORTS P984619 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB2750-4F0-XX-W2A-F_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

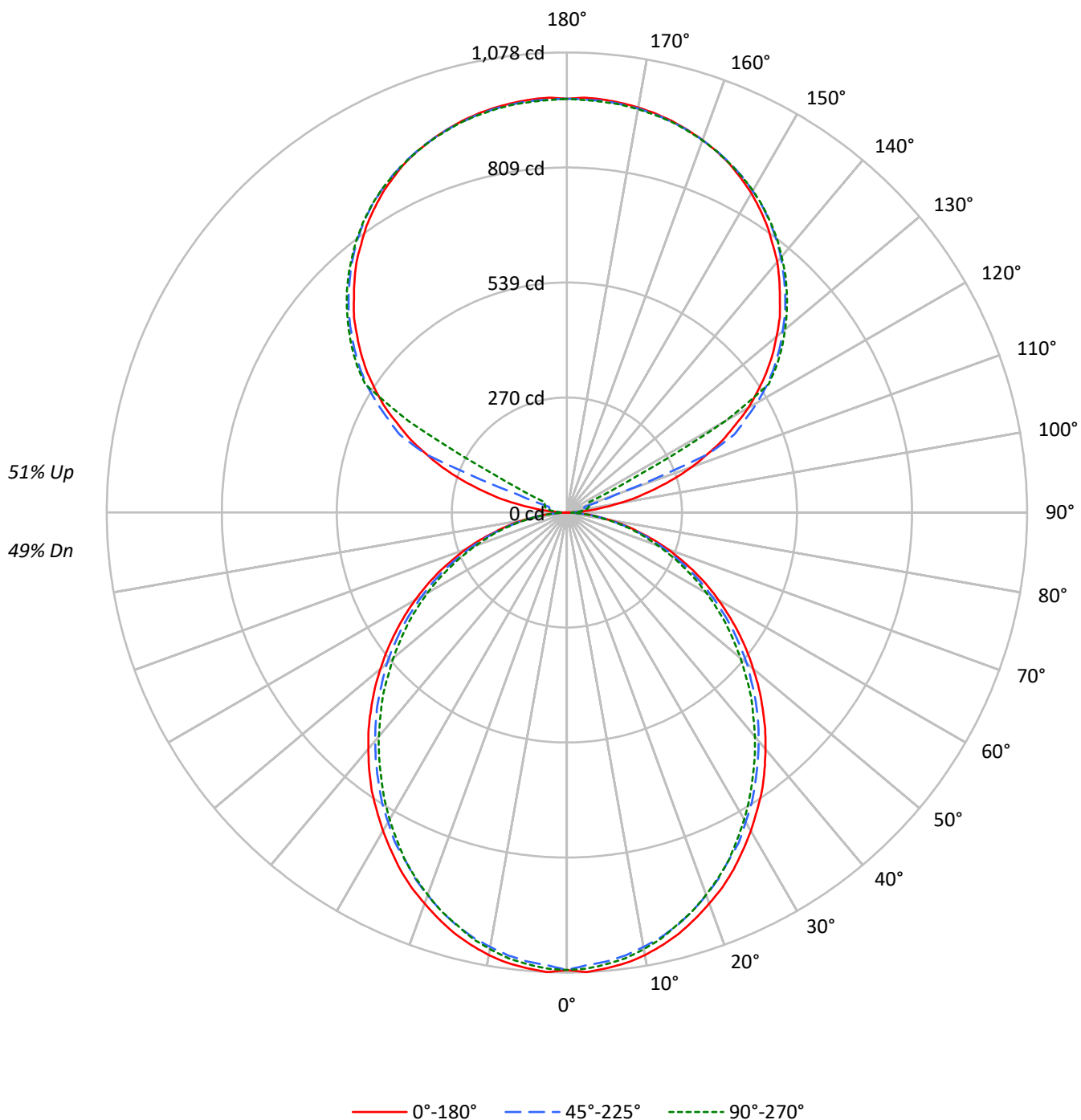
Lumens per Lamp: N/A
Luminaire Lumens: 5571.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49			
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41			
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	39	35			
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29			
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25			
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22			
6	63	51	43	37	58	47	40	35	40	35	30	34	29	26	28	25	22	19			
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17			
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15			
9	50	38	30	25	46	35	29	24	30	25	21	26	22	19	22	18	16	14			
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	14	12			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16967	16967	16967
5°	16995	16172	16058
10°	16856	15435	15129
15°	16609	14694	14152
20°	16276	13886	13227
25°	15944	13042	12304
30°	15524	12249	11334
35°	15131	11412	10383
40°	14643	10587	9482
45°	14159	9769	8599
50°	13628	8936	7684
55°	13073	8044	6817
60°	12447	7080	5915
65°	11760	6100	4967
70°	10892	5029	4010
75°	9683	3875	3097
80°	8231	2635	1993
85°	5975	1226	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.8
10°-20°	283.8	5.1
20°-30°	417.1	7.5
30°-40°	484.5	8.7
40°-50°	483.9	8.7
50°-60°	421.9	7.6
60°-70°	311.9	5.6
70°-80°	176.5	3.2
80°-90°	48.3	0.9
90°-100°	32.0	0.6
100°-110°	119.2	2.1
110°-120°	316.1	5.7
120°-130°	524.2	9.4
130°-140°	556.8	10.0
140°-150°	517.5	9.3
150°-160°	416.1	7.5
160°-170°	268.1	4.8
170°-180°	92.3	1.7
0°-30°	801.8	14.4
0°-40°	1286.3	23.1
0°-60°	2192.1	39.3
0°-90°	2728.7	49.0
90°-120°	467.2	8.4
90°-150°	2065.8	37.1
90°-180°	2842.0	51.0
0°-180°	5571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1072	1068	1056	1065	1063	102
15°	1020	1014	1001	1005	1000	287
25°	924	915	898	900	898	425
35°	797	786	770	764	759	497
45°	648	641	626	614	610	500
55°	491	484	472	460	454	439
65°	331	325	314	305	300	327
75°	173	171	166	160	162	185
85°	42	41	40	37	36	47
90°	1	8	14	18	19	5
95°	46	22	27	31	30	54
105°	213	234	43	50	53	228
115°	403	415	433	108	58	397
125°	570	580	593	598	600	509
135°	706	717	723	730	729	545
145°	819	818	830	835	831	512
155°	902	895	904	908	902	415
165°	950	946	948	953	948	268
175°	972	967	968	973	966	92
180°	970	970	970	970	970	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1078.1	1072.9	1061.6	1071.9	1069.8
5°	1071.9	1067.7	1056.4	1064.7	1062.6
7.5°	1064.7	1058.5	1047.1	1055.4	1053.3
10°	1053.3	1046.1	1033.7	1042.0	1038.9
12.5°	1037.9	1031.7	1019.3	1024.5	1022.4
15°	1020.3	1014.2	1000.8	1004.9	999.7
17.5°	998.7	992.5	979.1	984.3	979.1
20°	975.0	968.8	954.4	957.5	953.3
22.5°	951.3	942.0	928.6	928.6	926.5
25°	923.5	915.2	897.7	899.7	897.7
27.5°	892.5	885.3	871.9	868.8	863.7
30°	861.6	853.4	837.9	834.8	830.7
32.5°	828.6	822.5	806.0	799.8	795.7
35°	796.7	786.4	769.9	763.7	758.6
37.5°	760.6	751.3	734.8	727.6	722.5
40°	723.5	715.3	698.8	689.5	685.4
42.5°	687.4	679.2	662.7	652.4	646.2
45°	648.3	641.1	625.6	614.3	610.1
47.5°	610.1	602.9	586.4	575.1	568.9
50°	569.9	564.8	550.4	535.9	530.8
52.5°	530.8	523.6	510.2	498.8	491.6
55°	490.6	484.4	472.0	459.7	454.5
57.5°	450.4	445.2	431.8	419.5	415.3
60°	410.2	406.1	391.6	380.3	377.2
62.5°	371.0	363.8	353.5	343.2	339.1
65°	330.8	324.7	314.3	305.1	299.9
67.5°	289.6	284.5	275.2	268.0	263.8
70°	251.5	247.4	238.1	230.9	226.7
72.5°	212.3	208.2	203.0	195.8	192.7
75°	173.1	171.1	165.9	159.7	161.8
77.5°	138.1	134.0	131.9	128.8	125.7
80°	103.1	102.0	100.0	96.9	94.8
82.5°	70.1	70.1	69.1	64.9	64.9
85°	42.3	41.2	40.2	37.1	36.1
87.5°	18.6	16.5	14.4	11.3	10.3
90°	0.7	8.4	14.0	17.5	18.9
92.5°	17.5	14.7	16.8	18.2	18.9
95°	45.6	22.4	27.4	30.9	30.2
97.5°	82.1	24.6	35.8	37.9	38.6
100°	124.2	28.1	40.0	45.6	47.0
102.5°	170.5	169.1	41.4	49.1	51.2
105°	213.3	234.3	42.8	50.5	53.3
107.5°	263.1	280.6	44.2	51.9	54.7
110°	310.8	325.5	122.8	52.6	55.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.7	368.3	356.4	54.0	56.1
115°	403.4	415.3	432.8	108.0	57.5
117.5°	444.8	458.8	470.7	370.4	186.6
120°	491.1	501.6	514.2	522.6	427.9
122.5°	530.4	541.6	555.6	559.8	560.5
125°	570.3	579.5	592.8	597.7	599.8
127.5°	606.8	616.6	627.2	634.2	634.9
130°	641.2	652.4	660.1	667.9	667.2
132.5°	676.3	685.4	693.1	699.4	698.7
135°	705.7	717.0	723.3	730.3	728.9
137.5°	736.6	745.0	752.0	759.1	757.0
140°	766.8	772.4	780.1	786.4	782.9
142.5°	792.0	796.9	806.1	811.7	808.2
145°	818.7	818.0	829.9	834.8	831.3
147.5°	841.8	839.7	851.7	855.2	852.4
150°	864.3	859.4	870.6	874.8	871.3
152.5°	883.2	877.6	888.1	892.4	887.4
155°	901.5	895.2	903.6	907.8	902.2
157.5°	916.2	910.6	916.9	921.8	916.2
160°	928.8	924.6	928.8	933.0	928.1
162.5°	940.1	935.8	939.4	944.3	938.0
165°	949.9	945.7	947.8	952.7	947.8
167.5°	957.6	953.4	955.5	960.4	954.1
170°	963.9	959.7	961.1	966.0	959.7
172.5°	968.1	963.9	965.3	970.2	963.9
175°	971.6	966.7	968.1	973.0	966.0
177.5°	973.0	968.1	968.8	973.7	967.4
180°	969.5	969.5	969.5	969.5	969.5

(END OF REPORT)