

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: P1009390

Luminaire Tested: S122DIP-B675D925UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009390
REPORT IS A COMBINATION OF REPORTS P984661 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

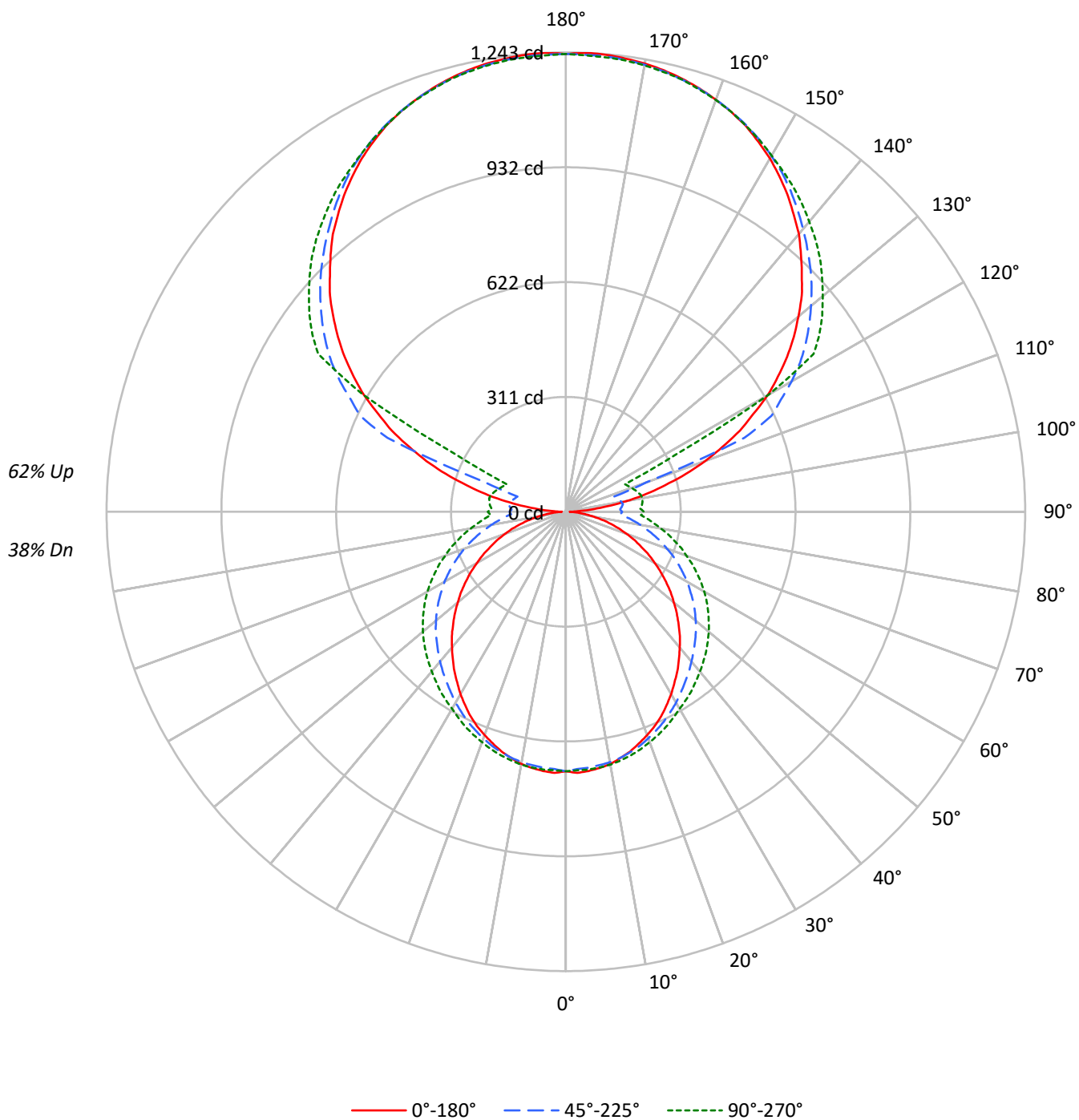
Lumens per Lamp: N/A
Luminaire Lumens: 6313.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 64.4
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: P1009390

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1009390

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	94	89	85	81	85	81	77	74	65	63	60	51	49	48	38	37	36
2	85	77	71	65	77	70	64	60	57	53	49	44	41	39	33	31	29
3	77	67	60	54	70	61	55	49	49	45	41	39	35	32	29	26	24
4	70	59	51	45	63	54	47	41	44	38	34	34	30	27	25	23	21
5	64	53	44	38	58	48	41	35	39	33	29	30	27	23	23	20	18
6	59	47	39	33	53	43	36	30	35	29	25	27	23	20	20	18	15
7	55	42	34	29	49	39	31	26	31	26	22	25	21	18	19	16	14
8	51	38	30	25	46	35	28	23	29	23	19	23	19	16	17	14	12
9	47	35	27	22	42	32	25	21	26	21	17	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	15	19	15	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

TEST NUMBER: P1009390

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.1
10°-20°	190.9	3.0
20°-30°	289.2	4.6
30°-40°	352.2	5.6
40°-50°	379.0	6.0
50°-60°	368.0	5.8
60°-70°	321.4	5.1
70°-80°	247.4	3.9
80°-90°	167.9	2.7
90°-100°	155.2	2.5
100°-110°	235.7	3.7
110°-120°	459.0	7.3
120°-130°	700.5	11.1
130°-140°	724.4	11.5
140°-150°	663.5	10.5
150°-160°	531.6	8.4
160°-170°	342.6	5.4
170°-180°	117.9	1.9
0°-30°	546.7	8.7
0°-40°	898.9	14.2
0°-60°	1645.9	26.1
0°-90°	2382.5	37.7
90°-120°	849.9	13.5
90°-150°	2938.3	46.5
90°-180°	3930.0	62.3
0°-180°	6313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	11	80	152	197	211	10
95°	66	85	152	195	206	75
105°	278	334	142	188	202	297
115°	520	546	614	230	176	511
125°	731	742	792	826	838	652
135°	903	917	935	966	972	698
145°	1046	1045	1060	1073	1073	655
155°	1152	1144	1155	1160	1153	531
165°	1214	1208	1211	1217	1211	343
175°	1242	1235	1237	1243	1234	118
180°	1239	1239	1239	1239	1239	

TEST NUMBER: P1009390

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	11.1	80.0	152.2	197.4	211.4
92.5°	31.6	81.9	146.7	188.1	201.3
95°	66.4	84.7	152.0	195.1	206.4
97.5°	112.0	82.3	155.6	195.9	209.1
100°	165.8	80.7	152.9	197.7	210.7
102.5°	223.9	255.7	147.5	194.0	207.9
105°	277.6	334.0	142.2	187.6	202.4
107.5°	341.3	388.1	136.9	181.3	196.1
110°	401.2	440.3	231.2	174.0	188.8

TEST NUMBER: P1009390

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.6	491.0	522.6	168.7	182.6
115°	519.5	546.0	614.2	229.6	176.3
117.5°	571.4	597.4	655.4	557.8	333.0
120°	630.6	648.0	704.9	744.1	634.3
122.5°	680.8	696.1	751.7	784.5	794.6
125°	730.8	742.4	792.1	825.8	837.6
127.5°	777.4	788.9	829.9	864.3	874.3
130°	821.3	834.7	865.9	900.2	907.4
132.5°	866.1	876.8	901.9	933.4	940.6
135°	902.8	917.1	935.4	965.8	972.1
137.5°	942.2	953.0	967.0	995.3	999.8
140°	980.8	986.9	998.8	1023.2	1024.8
142.5°	1013.0	1018.3	1030.0	1049.3	1050.0
145°	1046.1	1045.2	1060.4	1072.8	1073.4
147.5°	1075.7	1073.0	1088.2	1093.7	1093.2
150°	1104.4	1098.1	1112.4	1117.8	1113.3
152.5°	1128.6	1121.4	1134.8	1140.2	1134.0
155°	1151.9	1143.8	1154.6	1159.9	1152.8
157.5°	1170.7	1163.5	1171.6	1177.9	1170.7
160°	1186.8	1181.5	1186.8	1192.2	1185.9
162.5°	1201.2	1195.8	1200.3	1206.6	1198.5
165°	1213.7	1208.4	1211.0	1217.3	1211.0
167.5°	1223.6	1218.2	1220.9	1227.2	1219.1
170°	1231.7	1226.3	1228.1	1234.3	1226.3
172.5°	1237.0	1231.7	1233.5	1239.7	1231.7
175°	1241.5	1235.2	1237.0	1243.3	1234.3
177.5°	1243.3	1237.0	1237.9	1244.2	1236.1
180°	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)