

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: P1009392

Luminaire Tested: S122DIP-B675D925UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009392
REPORT IS A COMBINATION OF REPORTS P984663 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

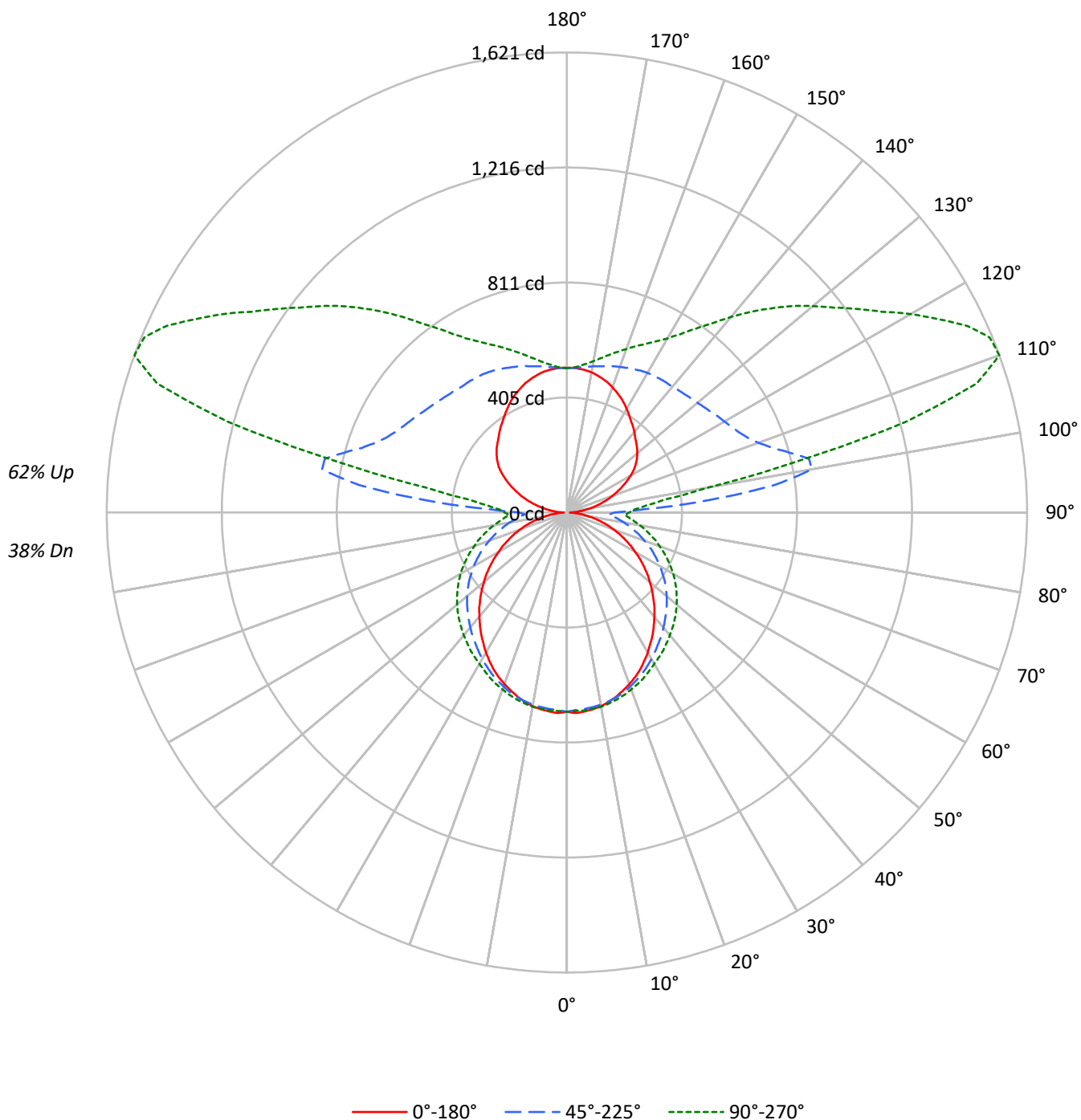
Lumens per Lamp: N/A
Luminaire Lumens: 6234.1 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1009392

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



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CATALOG NUMBER: S122DIP-B675D925UB27-4F0-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	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	66	63	61	51	50	48	38	37	36
2	85	77	71	65	77	70	65	60	57	53	49	44	42	39	33	31	29
3	77	67	60	54	70	61	55	49	50	45	41	39	35	32	29	26	24
4	71	59	51	45	64	54	47	41	44	39	34	34	31	27	26	23	21
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18
6	59	47	39	33	53	43	36	30	35	29	25	28	24	20	21	18	16
7	55	42	34	29	49	39	32	26	32	26	22	25	21	18	19	16	14
8	51	38	30	25	46	35	28	23	29	23	20	23	19	16	17	14	12
9	47	35	27	22	43	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: P1009392

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.1
10°-20°	190.9	3.1
20°-30°	289.2	4.6
30°-40°	352.2	5.6
40°-50°	379.0	6.1
50°-60°	368.0	5.9
60°-70°	321.4	5.2
70°-80°	247.4	4.0
80°-90°	168.9	2.7
90°-100°	320.8	5.1
100°-110°	781.6	12.5
110°-120°	789.0	12.7
120°-130°	634.2	10.2
130°-140°	497.8	8.0
140°-150°	368.5	5.9
150°-160°	257.5	4.1
160°-170°	151.6	2.4
170°-180°	49.3	0.8
0°-30°	546.7	8.8
0°-40°	898.9	14.4
0°-60°	1645.9	26.4
0°-90°	2383.6	38.2
90°-120°	1891.4	30.3
90°-150°	3392.0	54.4
90°-180°	3850.0	61.8
0°-180°	6234.1	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	82	168	207	220	9
95°	42	140	501	301	280	42
105°	125	215	813	1421	1238	133
115°	215	281	668	1345	1556	213
125°	296	350	618	1078	1250	263
135°	346	412	588	886	1017	267
145°	394	453	574	719	791	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	

TEST NUMBER: P1009392

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D4

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°	11.2	82.4	167.6	206.8	219.5
92.5°	23.9	109.6	276.1	234.4	236.9
95°	42.4	140.2	501.0	300.7	279.6
97.5°	58.0	162.1	735.9	438.5	346.9
100°	82.5	181.0	875.8	718.9	501.3
102.5°	104.1	198.4	873.4	1111.0	826.3
105°	124.6	214.8	813.4	1420.7	1238.4
107.5°	148.1	231.3	757.4	1527.7	1513.4
110°	170.6	248.3	718.0	1500.9	1620.8

TEST NUMBER: P1009392

CATALOG NUMBER: S122DIP-B675D925UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	192.2	265.3	689.3	1430.6	1611.8
115°	214.7	281.3	668.5	1345.1	1555.7
117.5°	237.2	298.2	653.5	1264.0	1475.0
120°	258.8	314.7	640.5	1189.7	1398.3
122.5°	279.4	332.8	630.5	1131.2	1316.7
125°	295.9	349.8	618.5	1077.6	1249.8
127.5°	310.6	366.9	609.5	1029.7	1185.8
130°	323.3	383.1	601.4	982.4	1131.6
132.5°	335.1	398.8	594.3	933.6	1076.5
135°	345.8	412.5	588.2	885.9	1017.4
137.5°	356.6	424.2	583.1	837.6	959.4
140°	369.4	434.0	578.1	794.2	899.3
142.5°	382.1	442.8	576.1	753.4	840.2
145°	393.8	452.6	574.1	718.8	791.0
147.5°	407.5	460.4	571.2	688.8	745.7
150°	421.3	468.3	568.2	666.2	708.3
152.5°	435.0	476.2	563.3	648.0	679.9
155°	447.7	483.4	557.4	630.4	655.4
157.5°	458.5	489.4	551.6	613.8	633.9
160°	469.3	495.2	545.7	597.1	613.3
162.5°	480.0	499.6	540.8	581.4	593.7
165°	487.9	502.6	533.9	566.2	575.1
167.5°	494.7	505.6	528.1	552.6	557.4
170°	501.6	507.0	523.2	539.8	541.8
172.5°	505.5	508.4	517.3	528.6	529.0
175°	508.5	509.0	513.4	519.7	518.3
177.5°	510.4	509.4	509.4	513.4	510.4
180°	509.4	509.4	509.4	509.4	509.4

(END OF REPORT)