

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: P1029667

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029667
REPORT IS A COMBINATION OF REPORTS P986574 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

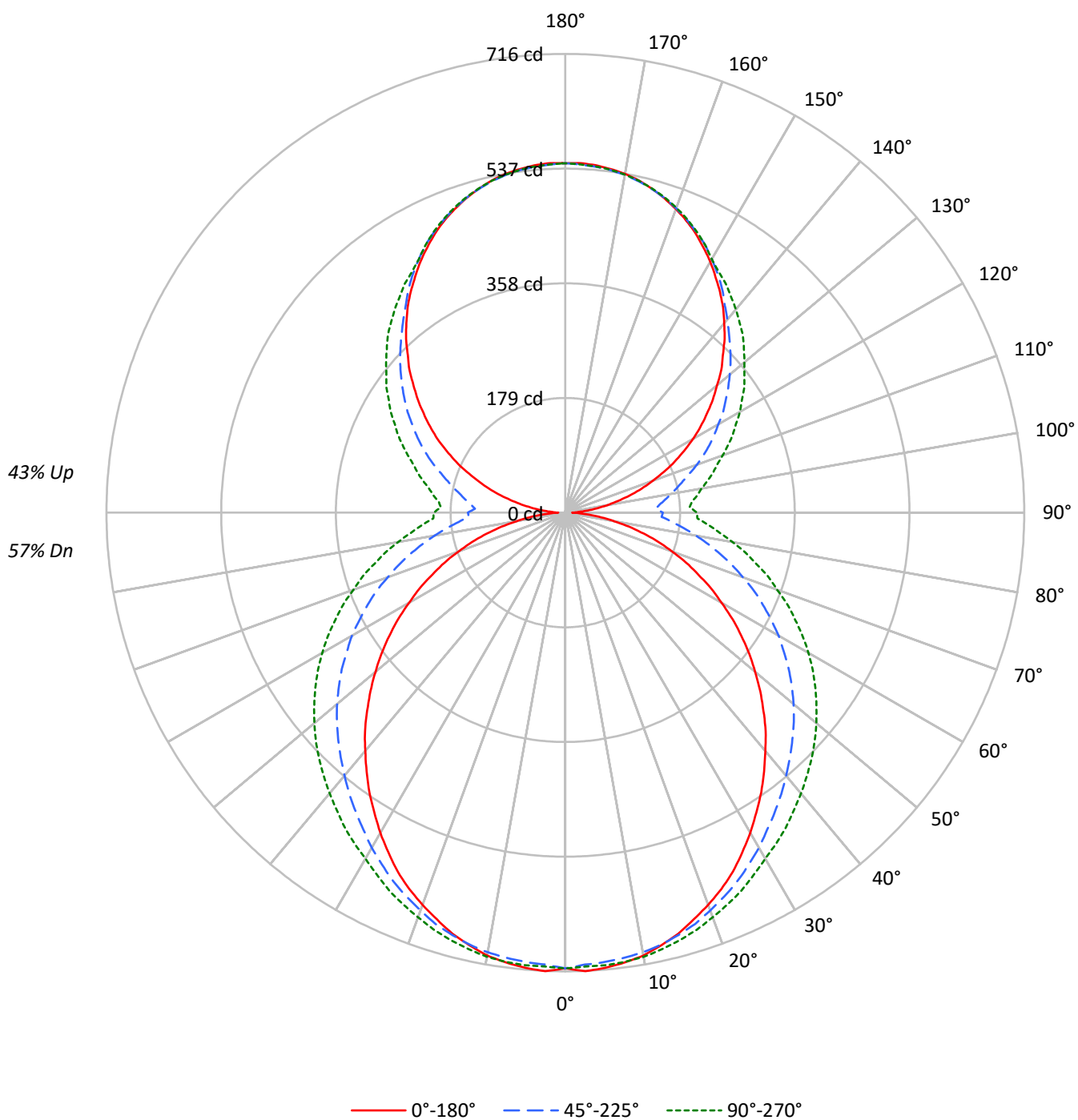
Lumens per Lamp: N/A
Luminaire Lumens: 4239.9 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.1
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: P1029667

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_3500K

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	98	93	88	84	90	86	82	78	74	71	68	63	61	58	53	51	49
2	88	80	73	67	82	74	68	63	64	59	55	54	51	47	45	43	40
3	80	70	62	55	74	65	58	52	56	50	46	47	43	39	40	36	34
4	73	61	53	46	67	57	49	44	49	43	38	42	37	33	35	31	28
5	67	54	46	39	62	51	43	37	44	38	33	37	32	29	31	28	24
6	62	49	40	34	57	45	38	32	39	33	28	34	29	25	28	24	21
7	57	44	35	30	53	41	33	28	36	29	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	24	20	17
9	49	36	28	23	45	34	27	22	30	24	20	26	21	17	22	18	15
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

TEST NUMBER: P1029667

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.6
10°-20°	193.4	4.6
20°-30°	293.0	6.9
30°-40°	356.8	8.4
40°-50°	383.9	9.1
50°-60°	372.8	8.8
60°-70°	325.6	7.7
70°-80°	250.6	5.9
80°-90°	169.4	4.0
90°-100°	149.5	3.5
100°-110°	191.8	4.5
110°-120°	239.3	5.6
120°-130°	272.4	6.4
130°-140°	283.9	6.7
140°-150°	267.8	6.3
150°-160°	222.8	5.3
160°-170°	147.8	3.5
170°-180°	51.6	1.2
0°-30°	553.8	13.1
0°-40°	910.7	21.5
0°-60°	1667.4	39.3
0°-90°	2413.0	56.9
90°-120°	580.6	13.7
90°-150°	1404.8	33.1
90°-180°	1827.0	43.1
0°-180°	4239.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	11	76	152	192	205	9
95°	32	85	148	187	199	33
105°	104	135	190	227	238	110
115°	188	202	248	278	288	186
125°	270	274	306	332	341	242
135°	348	352	364	385	392	269
145°	421	424	426	433	436	263
155°	481	482	484	486	484	221
165°	523	523	523	526	524	148
175°	544	543	542	545	542	52
180°	545	545	545	545	545	

TEST NUMBER: P1029667

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	10.8	76.1	152.2	192.5	205.3
92.5°	19.4	77.7	141.1	181.7	194.1
95°	32.1	85.2	147.9	187.1	198.6
97.5°	47.2	95.7	157.3	195.5	207.8
100°	65.6	107.5	166.6	204.7	215.6
102.5°	84.0	120.7	178.3	215.8	226.7
105°	104.1	135.3	189.9	226.9	238.3
107.5°	125.3	151.8	203.3	238.9	247.9
110°	144.4	167.8	218.4	251.3	261.3



TEST NUMBER: P1029667

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	166.5	185.8	232.7	264.3	274.8
115°	188.2	202.3	247.8	278.2	288.2
117.5°	208.8	220.7	261.7	291.3	300.2
120°	230.4	238.2	275.7	304.6	314.6
122.5°	250.2	255.8	291.7	318.1	326.5
125°	269.9	274.0	305.6	332.1	340.9
127.5°	290.1	294.1	320.2	344.0	351.9
130°	309.0	313.9	334.7	358.5	364.9
132.5°	330.2	333.7	349.6	371.0	377.9
135°	347.5	352.5	363.8	385.0	391.8
137.5°	367.7	371.9	378.0	397.1	402.5
140°	385.7	388.8	393.2	409.7	414.0
142.5°	404.1	407.2	408.6	421.5	424.7
145°	420.6	423.8	426.5	433.2	436.5
147.5°	436.2	440.4	442.2	444.1	445.4
150°	452.3	455.1	456.9	458.3	456.9
152.5°	466.6	469.3	471.6	473.5	471.6
155°	480.8	482.2	483.6	485.9	484.5
157.5°	493.3	494.2	495.1	498.3	496.0
160°	504.3	505.2	505.7	508.5	506.6
162.5°	514.4	514.4	514.9	518.1	515.8
165°	523.2	522.7	522.7	525.9	523.6
167.5°	531.0	529.6	529.6	532.8	530.5
170°	537.0	535.6	535.1	538.4	535.6
172.5°	541.1	539.7	539.3	542.5	539.7
175°	544.3	543.0	542.0	545.3	542.5
177.5°	546.2	544.8	543.9	546.6	543.9
180°	545.3	545.3	545.3	545.3	545.3

(END OF REPORT)