

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: P1029671

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029671
REPORT IS A COMBINATION OF REPORTS P986583 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-D_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

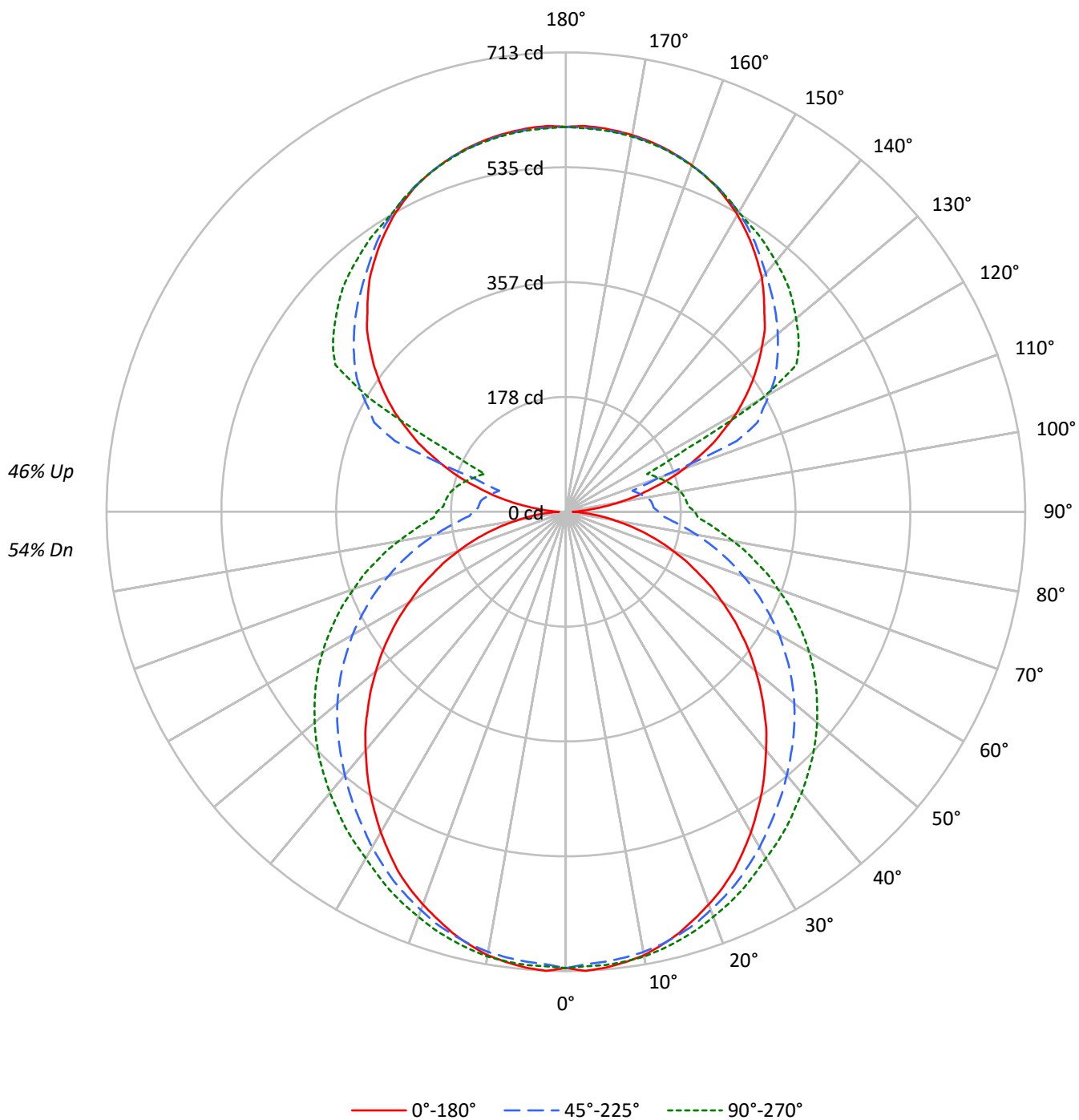
Lumens per Lamp: N/A
Luminaire Lumens: 4454.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029671

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_3000K

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86		72	72	72		60
1	97	92	87	83	90	85	81	78	73	70	67		61	59	57		50
2	88	79	73	67	81	74	68	62	63	58	54		53	49	46		43
3	80	69	61	55	73	64	57	51	55	49	45		46	42	38		38
4	73	61	52	46	67	57	49	43	48	42	38		41	36	32		33
5	67	54	45	39	61	50	43	37	43	37	32		36	32	28		30
6	61	48	40	34	56	45	37	32	39	33	28		33	28	24		27
7	56	44	35	29	52	41	33	28	35	29	24		30	25	21		25
8	52	40	31	26	48	37	30	24	32	26	22		27	22	19		23
9	49	36	28	23	45	34	27	22	29	23	19		25	20	17		21
10	46	33	26	21	42	31	24	19	27	21	17		23	18	15		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

TEST NUMBER: P1029671

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.5
10°-20°	192.5	4.3
20°-30°	291.7	6.5
30°-40°	355.2	8.0
40°-50°	382.2	8.6
50°-60°	371.2	8.3
60°-70°	324.2	7.3
70°-80°	249.5	5.6
80°-90°	168.2	3.8
90°-100°	135.0	3.0
100°-110°	157.6	3.5
110°-120°	250.3	5.6
120°-130°	353.9	7.9
130°-140°	356.0	8.0
140°-150°	321.0	7.2
150°-160°	256.3	5.8
160°-170°	165.2	3.7
170°-180°	56.8	1.3
0°-30°	551.4	12.4
0°-40°	906.6	20.4
0°-60°	1660.0	37.3
0°-90°	2401.8	53.9
90°-120°	542.9	12.2
90°-150°	1573.9	35.3
90°-180°	2052.0	46.1
0°-180°	4454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	75	144	187	200	9
95°	36	70	135	176	188	40
105°	136	179	115	155	168	146
115°	253	271	328	159	139	248
125°	354	359	400	431	441	316
135°	436	443	457	483	490	337
145°	504	504	511	520	523	316
155°	555	551	557	559	556	256
165°	585	583	584	587	584	165
175°	599	596	596	599	595	57
180°	597	597	597	597	597	

TEST NUMBER: P1029671

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	10.7	75.0	144.1	187.3	200.5
92.5°	20.0	72.7	136.6	177.5	190.3
95°	36.3	70.2	134.9	176.0	187.9
97.5°	57.8	66.4	132.8	172.1	184.9
100°	83.7	62.5	127.2	168.7	180.9
102.5°	111.2	144.2	120.9	162.7	175.2
105°	136.5	179.2	114.7	155.3	168.3
107.5°	167.2	202.7	108.3	148.0	161.0
110°	195.6	225.1	150.5	140.2	153.1



TEST NUMBER: P1029671

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.2	247.4	287.2	133.9	146.5
115°	252.6	271.2	328.2	159.0	139.1
117.5°	277.1	293.9	344.4	313.4	210.4
120°	305.6	316.2	365.0	399.0	351.9
122.5°	329.8	337.7	384.4	414.7	424.3
125°	353.5	359.1	400.1	430.8	441.3
127.5°	375.9	380.9	415.1	445.1	454.7
130°	397.1	402.9	429.3	458.6	466.4
132.5°	418.7	423.2	443.4	470.9	478.6
135°	435.8	442.7	456.9	482.7	490.1
137.5°	454.8	460.0	469.5	493.3	499.1
140°	473.4	475.8	482.7	503.0	506.9
142.5°	488.9	490.9	496.6	512.3	515.3
145°	504.3	503.9	511.3	520.5	523.4
147.5°	518.6	517.3	524.7	527.8	529.2
150°	532.4	529.4	536.3	538.9	536.8
152.5°	544.1	540.6	547.1	549.7	546.7
155°	555.3	551.4	556.6	559.2	555.8
157.5°	564.4	561.0	564.8	567.9	564.4
160°	572.2	569.6	572.2	574.8	571.8
162.5°	579.1	576.5	578.7	581.7	577.8
165°	585.2	582.6	583.9	586.9	583.9
167.5°	589.9	587.3	588.6	591.6	587.7
170°	593.8	591.2	592.1	595.1	591.2
172.5°	596.4	593.8	594.7	597.7	593.8
175°	598.6	595.5	596.4	599.4	595.1
177.5°	599.4	596.4	596.8	599.9	596.0
180°	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)