

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: P1029672

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029672
REPORT IS A COMBINATION OF REPORTS P986584 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_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

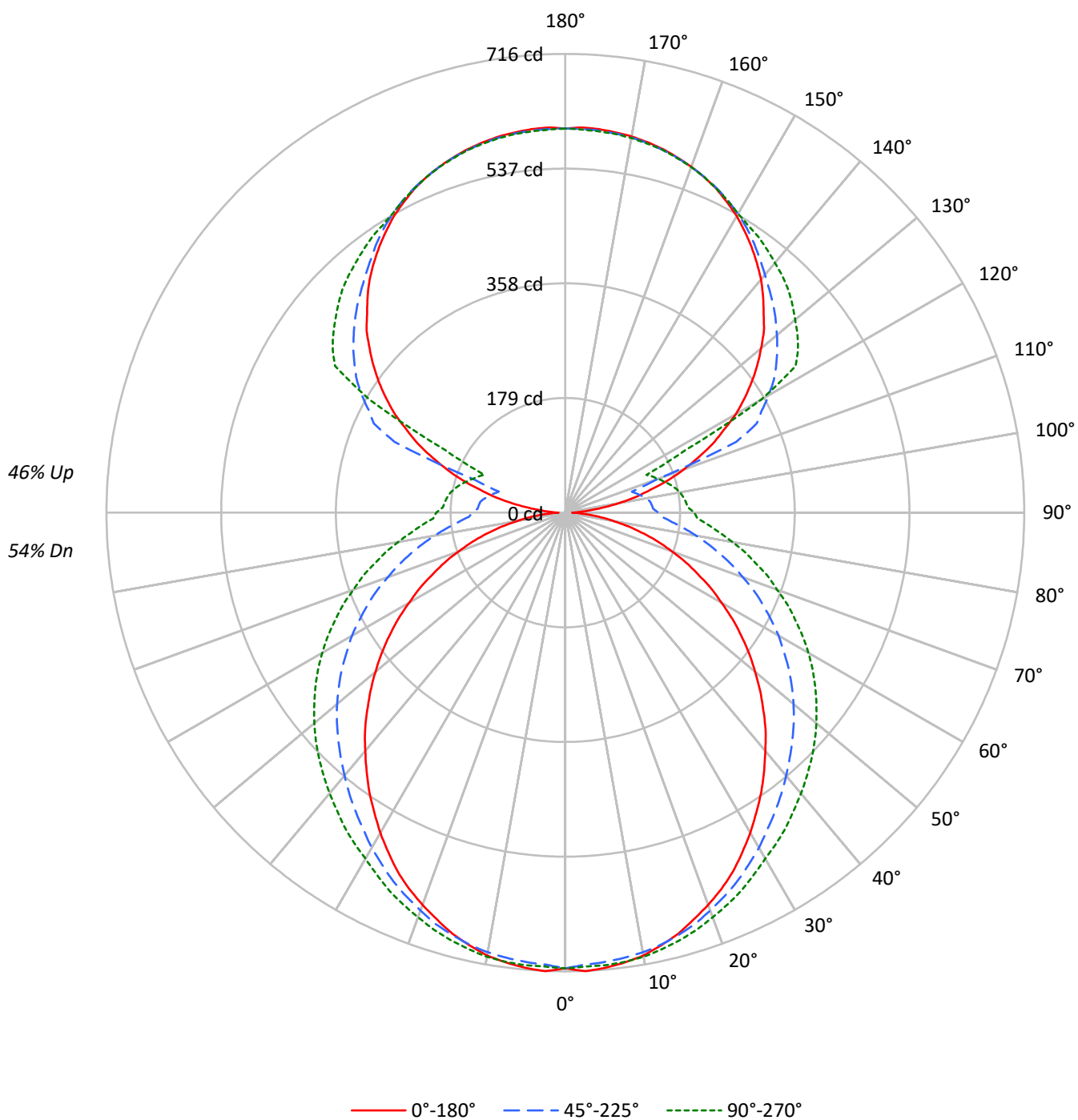
Lumens per Lamp: N/A
Luminaire Lumens: 4472.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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
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		34
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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.5
10°-20°	193.4	4.3
20°-30°	293.0	6.6
30°-40°	356.8	8.0
40°-50°	383.9	8.6
50°-60°	372.8	8.3
60°-70°	325.6	7.3
70°-80°	250.6	5.6
80°-90°	168.9	3.8
90°-100°	135.6	3.0
100°-110°	158.3	3.5
110°-120°	251.3	5.6
120°-130°	355.3	7.9
130°-140°	357.5	8.0
140°-150°	322.3	7.2
150°-160°	257.3	5.8
160°-170°	165.8	3.7
170°-180°	57.1	1.3
0°-30°	553.8	12.4
0°-40°	910.7	20.4
0°-60°	1667.4	37.3
0°-90°	2412.5	53.9
90°-120°	545.1	12.2
90°-150°	1580.2	35.3
90°-180°	2060.0	46.1
0°-180°	4472.9	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	75	145	188	201	9
95°	36	71	135	177	189	40
105°	137	180	115	156	169	147
115°	254	272	330	160	140	249
125°	355	360	402	433	443	317
135°	438	444	459	485	492	338
145°	506	506	513	522	526	317
155°	558	554	559	562	558	257
165°	588	585	586	589	586	166
175°	601	598	599	602	598	57
180°	600	600	600	600	600	

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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°	10.7	75.3	144.8	188.1	201.4
92.5°	20.1	73.0	137.2	178.3	191.1
95°	36.4	70.6	135.4	176.8	188.8
97.5°	58.0	66.7	133.4	172.9	185.7
100°	84.0	62.8	127.8	169.4	181.7
102.5°	111.6	144.8	121.5	163.4	176.0
105°	137.1	179.9	115.2	155.9	169.1
107.5°	167.9	203.5	108.7	148.6	161.6
110°	196.3	226.0	151.2	140.7	153.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.1	248.4	288.4	134.4	147.1
115°	253.6	272.4	329.6	159.6	139.7
117.5°	278.2	295.1	345.7	314.7	211.3
120°	306.8	317.4	366.4	400.6	353.4
122.5°	331.1	339.1	385.9	416.3	426.1
125°	354.9	360.5	401.6	432.6	443.2
127.5°	377.4	382.4	416.8	446.8	456.6
130°	398.7	404.5	431.0	460.5	468.3
132.5°	420.4	424.9	445.2	472.8	480.6
135°	437.5	444.4	458.6	484.7	492.0
137.5°	456.6	461.8	471.3	495.3	501.2
140°	475.2	477.7	484.6	505.0	508.9
142.5°	490.9	492.9	498.5	514.4	517.3
145°	506.4	505.9	513.3	522.5	525.5
147.5°	520.7	519.4	526.7	529.9	531.3
150°	534.6	531.5	538.5	541.1	538.9
152.5°	546.3	542.8	549.3	551.9	548.9
155°	557.6	553.7	558.9	561.5	558.0
157.5°	566.7	563.2	567.1	570.1	566.7
160°	574.5	571.9	574.5	577.1	574.0
162.5°	581.4	578.8	581.0	584.0	580.1
165°	587.5	584.9	586.2	589.2	586.2
167.5°	592.3	589.7	591.0	594.0	590.1
170°	596.2	593.6	594.4	597.5	593.6
172.5°	598.8	596.2	597.0	600.1	596.2
175°	600.9	597.9	598.8	601.8	597.5
177.5°	601.8	598.8	599.2	602.2	598.3
180°	599.6	599.6	599.6	599.6	599.6

(END OF REPORT)