

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: P1029677

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-F1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029677
REPORT IS A COMBINATION OF REPORTS P986589 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-F1_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

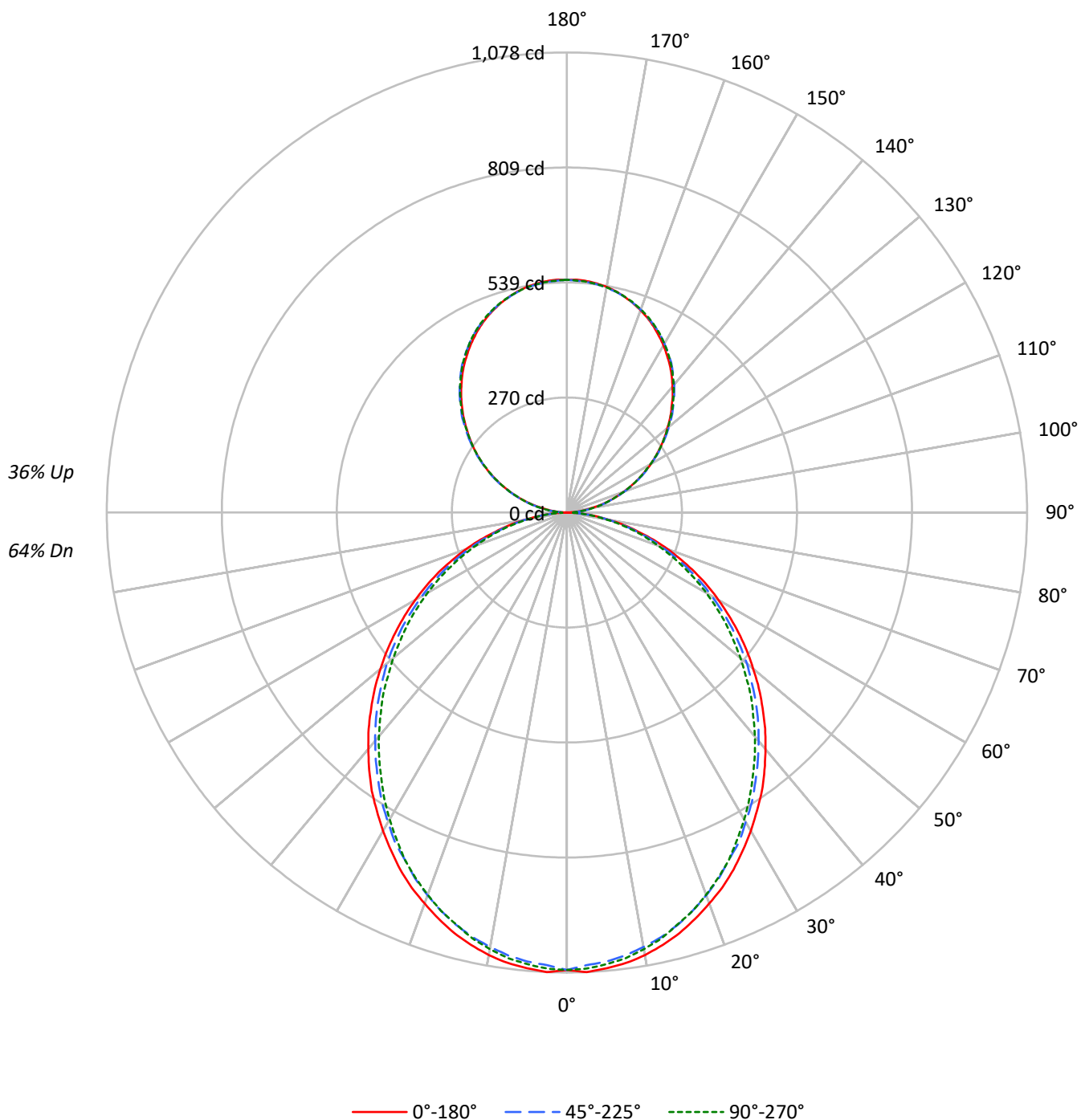
Lumens per Lamp: N/A
Luminaire Lumens: 4253.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64		
1	101	97	93	89	95	91	87	84	80	77	75	70	68	66	61	60	58	54		
2	92	84	78	73	86	79	74	69	70	66	62	62	58	56	54	51	49	45		
3	84	74	67	61	78	70	63	58	62	57	52	55	50	47	48	45	42	38		
4	77	66	58	51	72	62	55	49	55	49	45	49	44	40	43	39	36	33		
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	38	35	32	29		
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25		
7	60	48	40	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22		
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	29	25	22	20		
9	52	40	32	27	49	38	31	26	34	28	24	30	26	22	27	23	20	18		
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16967	16967	16967
5°	16995	16172	16058
10°	16856	15435	15129
15°	16609	14694	14152
20°	16276	13886	13227
25°	15944	13042	12304
30°	15524	12249	11334
35°	15131	11412	10383
40°	14643	10587	9482
45°	14159	9769	8599
50°	13628	8936	7684
55°	13073	8044	6817
60°	12447	7080	5915
65°	11760	6100	4967
70°	10892	5029	4010
75°	9683	3875	3097
80°	8231	2635	1993
85°	5975	1226	849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	2.4
10°-20°	283.8	6.7
20°-30°	417.1	9.8
30°-40°	484.5	11.4
40°-50°	483.9	11.4
50°-60°	421.9	9.9
60°-70°	311.9	7.3
70°-80°	176.5	4.1
80°-90°	48.1	1.1
90°-100°	33.7	0.8
100°-110°	107.2	2.5
110°-120°	183.5	4.3
120°-130°	241.3	5.7
130°-140°	270.9	6.4
140°-150°	265.6	6.2
150°-160°	222.8	5.2
160°-170°	147.8	3.5
170°-180°	51.6	1.2
0°-30°	801.8	18.9
0°-40°	1286.3	30.2
0°-60°	2192.1	51.5
0°-90°	2728.6	64.2
90°-120°	324.4	7.6
90°-150°	1102.2	25.9
90°-180°	1524.0	35.8
0°-180°	4253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1072	1068	1056	1065	1063	102
15°	1020	1014	1001	1005	1000	287
25°	924	915	898	900	898	425
35°	797	786	770	764	759	497
45°	648	641	626	614	610	500
55°	491	484	472	460	454	439
65°	331	325	314	305	300	327
75°	173	171	166	160	162	185
85°	42	41	40	37	36	47
90°	0	6	16	15	16	4
95°	24	28	29	29	28	27
105°	99	100	101	102	102	104
115°	184	187	186	185	184	182
125°	268	272	271	269	269	239
135°	346	352	352	352	351	268
145°	421	424	426	427	425	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1078.1	1072.9	1061.6	1071.9	1069.8
5°	1071.9	1067.7	1056.4	1064.7	1062.6
7.5°	1064.7	1058.5	1047.1	1055.4	1053.3
10°	1053.3	1046.1	1033.7	1042.0	1038.9
12.5°	1037.9	1031.7	1019.3	1024.5	1022.4
15°	1020.3	1014.2	1000.8	1004.9	999.7
17.5°	998.7	992.5	979.1	984.3	979.1
20°	975.0	968.8	954.4	957.5	953.3
22.5°	951.3	942.0	928.6	928.6	926.5
25°	923.5	915.2	897.7	899.7	897.7
27.5°	892.5	885.3	871.9	868.8	863.7
30°	861.6	853.4	837.9	834.8	830.7
32.5°	828.6	822.5	806.0	799.8	795.7
35°	796.7	786.4	769.9	763.7	758.6
37.5°	760.6	751.3	734.8	727.6	722.5
40°	723.5	715.3	698.8	689.5	685.4
42.5°	687.4	679.2	662.7	652.4	646.2
45°	648.3	641.1	625.6	614.3	610.1
47.5°	610.1	602.9	586.4	575.1	568.9
50°	569.9	564.8	550.4	535.9	530.8
52.5°	530.8	523.6	510.2	498.8	491.6
55°	490.6	484.4	472.0	459.7	454.5
57.5°	450.4	445.2	431.8	419.5	415.3
60°	410.2	406.1	391.6	380.3	377.2
62.5°	371.0	363.8	353.5	343.2	339.1
65°	330.8	324.7	314.3	305.1	299.9
67.5°	289.6	284.5	275.2	268.0	263.8
70°	251.5	247.4	238.1	230.9	226.7
72.5°	212.3	208.2	203.0	195.8	192.7
75°	173.1	171.1	165.9	159.7	161.8
77.5°	138.1	134.0	131.9	128.8	125.7
80°	103.1	102.0	100.0	96.9	94.8
82.5°	70.1	70.1	69.1	64.9	64.9
85°	42.3	41.2	40.2	37.1	36.1
87.5°	18.6	16.5	14.4	11.3	10.3
90°	0.5	6.0	16.1	15.2	15.6
92.5°	10.1	13.8	14.3	14.7	14.7
95°	23.9	28.5	29.4	29.4	28.5
97.5°	40.0	44.2	46.0	46.0	46.0
100°	58.4	62.1	63.5	63.5	63.0
102.5°	77.8	80.5	82.4	82.8	82.4
105°	98.9	100.3	101.2	102.2	102.2
107.5°	120.1	121.9	121.9	122.4	120.1
110°	140.3	143.1	143.1	143.1	141.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	162.4	165.2	164.7	163.3	162.4
115°	184.1	186.8	185.9	185.4	184.1
117.5°	205.7	209.4	207.1	205.7	204.3
120°	227.3	231.0	227.3	227.3	225.9
122.5°	247.1	251.7	249.4	248.0	247.1
125°	267.8	271.9	270.6	269.2	268.7
127.5°	288.0	293.1	291.3	289.4	288.0
130°	306.9	312.9	312.0	311.1	309.2
132.5°	328.1	332.7	333.1	330.8	329.5
135°	346.5	351.5	352.5	352.0	350.6
137.5°	366.7	370.9	371.8	371.3	369.5
140°	384.7	388.8	391.1	391.1	389.3
142.5°	403.1	407.2	408.6	409.1	407.2
145°	420.6	423.8	426.5	427.0	425.2
147.5°	436.2	440.4	442.2	443.1	441.3
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)