

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: P1029682

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029682
REPORT IS A COMBINATION OF REPORTS P986599 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-F_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

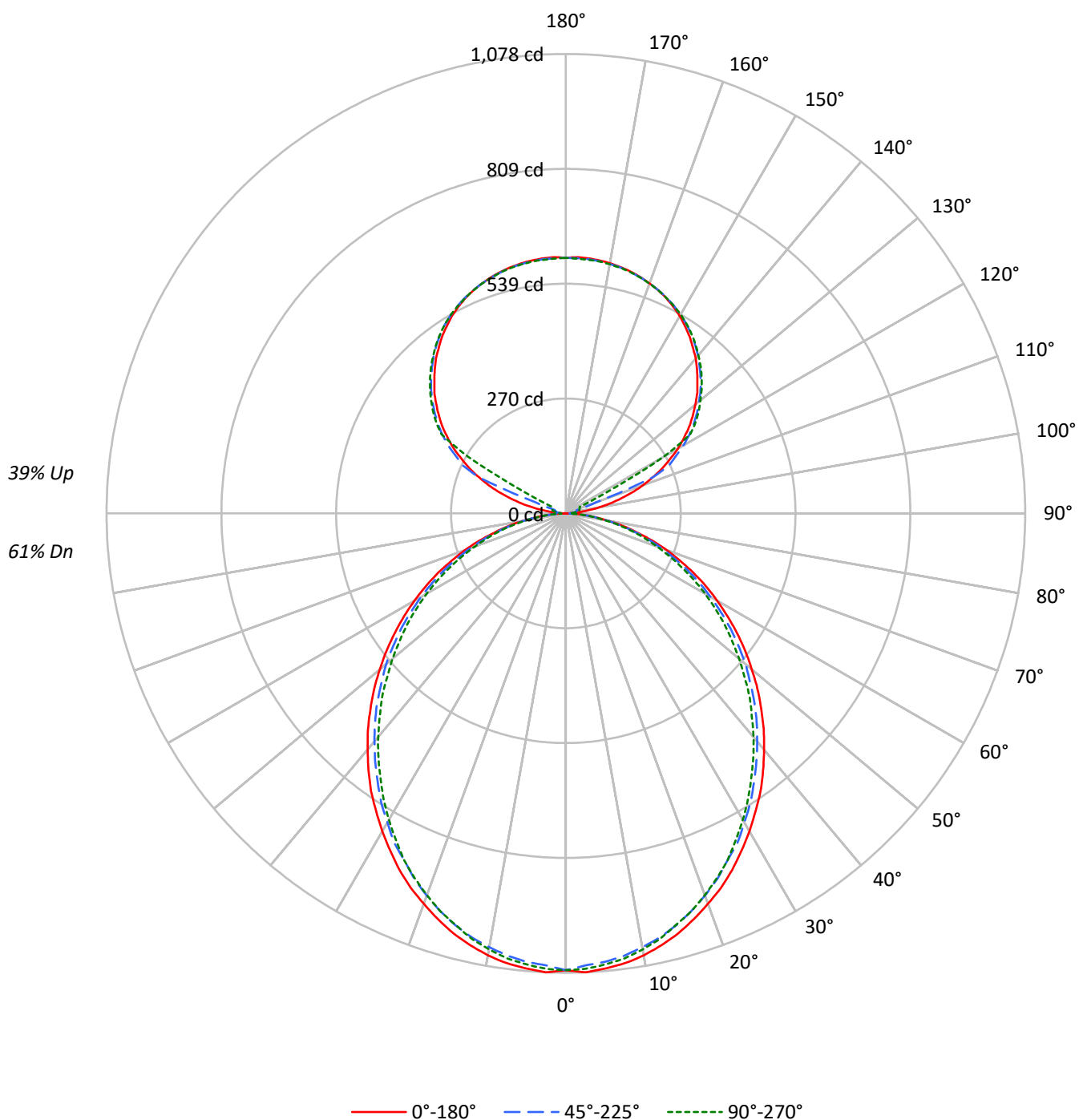
Lumens per Lamp: N/A
Luminaire Lumens: 4486.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	61
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	58	57	56	56	56	51
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	51	49	47	47	47	43
3	83	74	66	60	78	69	62	57	61	55	51	53	49	46	46	43	40	40	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	37	35	35	35	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	30	30	27
6	65	52	44	38	60	49	42	36	44	38	33	38	33	30	33	30	27	27	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	30	27	24	24	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	21	21	19
9	52	39	32	27	48	37	30	25	33	27	23	29	25	21	26	22	19	19	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	17	17	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	2.2
10°-20°	283.8	6.3
20°-30°	417.1	9.3
30°-40°	484.5	10.8
40°-50°	483.9	10.8
50°-60°	421.9	9.4
60°-70°	311.9	7.0
70°-80°	176.5	3.9
80°-90°	47.6	1.1
90°-100°	19.8	0.4
100°-110°	73.7	1.6
110°-120°	195.5	4.4
120°-130°	324.2	7.2
130°-140°	344.4	7.7
140°-150°	320.1	7.1
150°-160°	257.3	5.7
160°-170°	165.8	3.7
170°-180°	57.1	1.3
0°-30°	801.8	17.9
0°-40°	1286.3	28.7
0°-60°	2192.1	48.9
0°-90°	2728.1	60.8
90°-120°	289.0	6.4
90°-150°	1277.7	28.5
90°-180°	1758.0	39.2
0°-180°	4486.0	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	5	9	11	12	4
95°	28	14	17	19	19	33
105°	132	145	26	31	33	141
115°	250	257	268	67	36	246
125°	353	358	367	370	371	315
135°	436	443	447	452	451	337
145°	506	506	513	516	514	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°	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°	0.4	5.2	8.7	10.8	11.7
92.5°	10.8	9.1	10.4	11.3	11.7
95°	28.2	13.9	16.9	19.1	18.7
97.5°	50.8	15.2	22.1	23.4	23.9
100°	76.8	17.4	24.7	28.2	29.1
102.5°	105.4	104.6	25.6	30.4	31.7
105°	131.9	144.9	26.5	31.2	33.0
107.5°	162.7	173.6	27.3	32.1	33.8
110°	192.2	201.3	75.9	32.5	34.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.0	227.8	220.4	33.4	34.7
115°	249.5	256.9	267.7	66.8	35.6
117.5°	275.1	283.8	291.1	229.1	115.4
120°	303.7	310.2	318.0	323.3	264.7
122.5°	328.0	335.0	343.6	346.2	346.7
125°	352.8	358.4	366.6	369.7	371.0
127.5°	375.3	381.4	387.9	392.2	392.7
130°	396.6	403.5	408.3	413.1	412.6
132.5°	418.3	423.9	428.7	432.6	432.2
135°	436.5	443.4	447.3	451.7	450.8
137.5°	455.6	460.8	465.1	469.5	468.2
140°	474.2	477.7	482.5	486.4	484.2
142.5°	489.9	492.9	498.5	502.0	499.8
145°	506.4	505.9	513.3	516.3	514.2
147.5°	520.7	519.4	526.7	528.9	527.2
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)