

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: P1029674

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029674
REPORT IS A COMBINATION OF REPORTS P986586 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_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

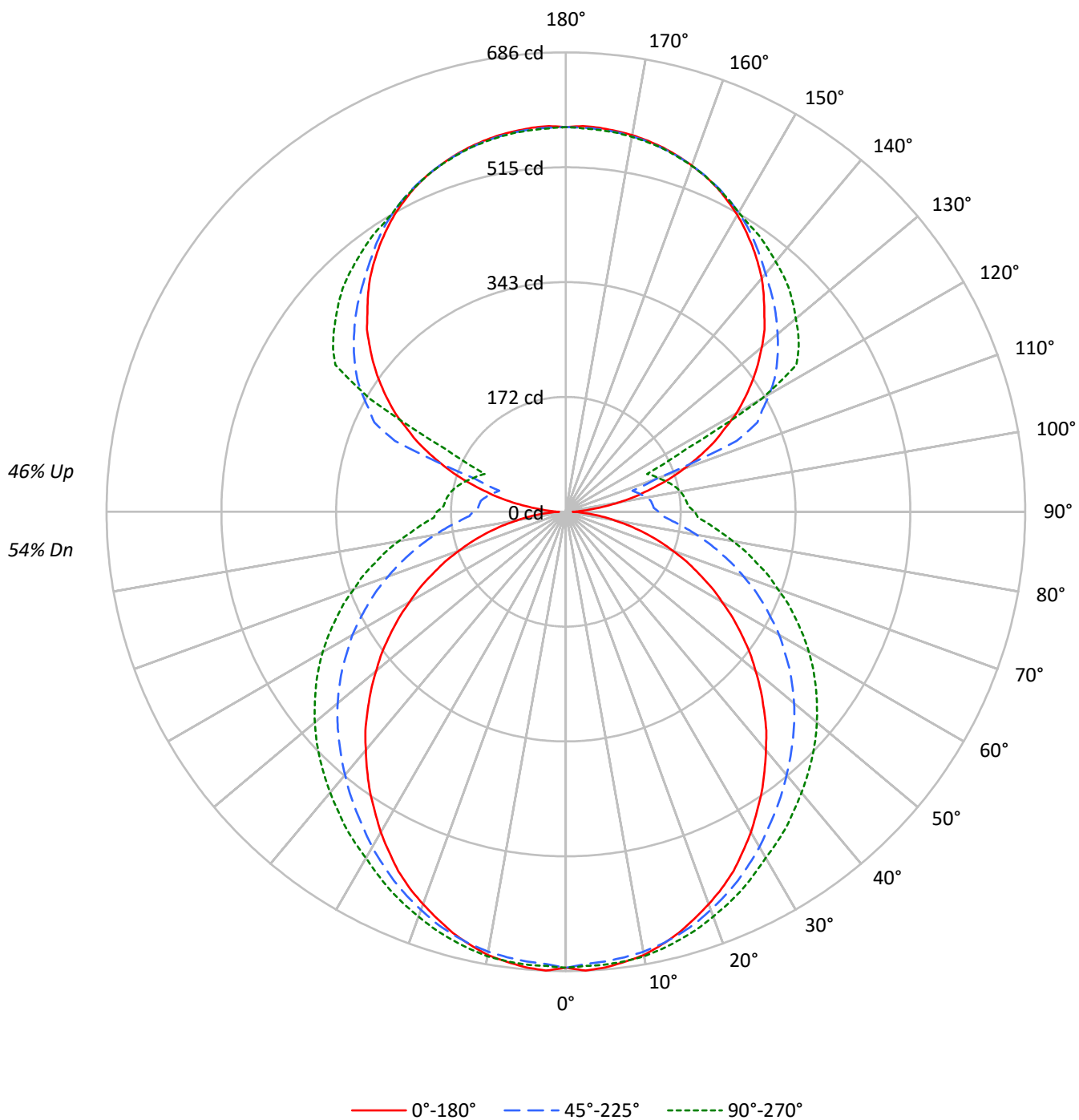
Lumens per Lamp: N/A
Luminaire Lumens: 4283.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1029674

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_5000K

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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	97	92	87	83	90	85	81	78	73	70	67	61	59	57	50	49	47
2	88	79	73	67	81	74	68	62	63	58	54	53	49	46	43	41	39
3	80	69	61	55	73	64	57	51	55	49	45	46	42	38	38	35	32
4	73	61	52	46	67	57	49	43	48	42	38	41	36	32	33	30	27
5	67	54	45	39	61	50	43	37	43	37	32	36	32	28	30	26	23
6	61	48	40	34	56	45	37	32	39	33	28	33	28	24	27	23	20
7	56	44	35	29	52	41	33	28	35	29	24	30	25	21	25	21	18
8	52	40	31	26	48	37	30	24	32	26	22	27	22	19	23	19	16
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	14
10	46	33	26	21	42	31	24	19	27	21	17	23	18	15	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

TEST NUMBER: P1029674

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.5
10°-20°	185.1	4.3
20°-30°	280.5	6.5
30°-40°	341.6	8.0
40°-50°	367.5	8.6
50°-60°	356.9	8.3
60°-70°	311.7	7.3
70°-80°	239.9	5.6
80°-90°	161.7	3.8
90°-100°	129.8	3.0
100°-110°	151.6	3.5
110°-120°	240.7	5.6
120°-130°	340.4	7.9
130°-140°	342.4	8.0
140°-150°	308.7	7.2
150°-160°	246.5	5.8
160°-170°	158.8	3.7
170°-180°	54.7	1.3
0°-30°	530.2	12.4
0°-40°	871.7	20.4
0°-60°	1596.1	37.3
0°-90°	2309.4	53.9
90°-120°	522.1	12.2
90°-150°	1513.6	35.3
90°-180°	1974.0	46.1
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	10	72	139	180	193	8
95°	35	68	130	169	181	38
105°	131	172	110	149	162	141
115°	243	261	316	153	134	239
125°	340	345	385	414	424	303
135°	419	426	439	464	471	324
145°	485	485	492	500	503	304
155°	534	530	535	538	534	246
165°	563	560	562	564	562	159
175°	576	573	574	576	572	55
180°	574	574	574	574	574	

TEST NUMBER: P1029674

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	10.3	72.1	138.6	180.1	192.8
92.5°	19.3	69.9	131.4	170.7	182.9
95°	34.9	67.6	129.7	169.3	180.7
97.5°	55.5	63.8	127.8	165.5	177.8
100°	80.5	60.0	122.4	162.2	173.8
102.5°	106.9	138.7	116.3	156.4	168.4
105°	131.3	172.4	110.3	149.3	161.9
107.5°	160.8	194.9	104.2	142.3	154.8
110°	188.0	216.6	144.7	134.8	147.3



TEST NUMBER: P1029674

CATALOG NUMBER: S122DIW-B675D435UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.6	237.9	276.2	128.7	140.9
115°	242.9	260.9	315.7	152.8	133.8
117.5°	266.5	282.7	331.2	301.4	202.4
120°	293.9	304.1	351.1	383.7	338.4
122.5°	317.2	324.8	369.7	398.8	408.1
125°	339.9	345.3	384.8	414.3	424.5
127.5°	361.5	366.3	399.2	428.0	437.4
130°	381.9	387.5	412.8	441.1	448.6
132.5°	402.7	407.1	426.5	452.9	460.4
135°	419.1	425.8	439.4	464.3	471.4
137.5°	437.4	442.4	451.5	474.4	480.1
140°	455.3	457.6	464.2	483.7	487.6
142.5°	470.3	472.2	477.6	492.7	495.6
145°	485.1	484.6	491.7	500.5	503.4
147.5°	498.8	497.5	504.6	507.7	508.9
150°	512.1	509.2	515.8	518.3	516.2
152.5°	523.3	520.0	526.2	528.7	525.8
155°	534.1	530.4	535.3	537.8	534.5
157.5°	542.8	539.5	543.2	546.2	542.8
160°	550.3	547.8	550.3	552.8	549.9
162.5°	557.0	554.5	556.5	559.5	555.7
165°	562.8	560.3	561.5	564.4	561.5
167.5°	567.4	564.9	566.1	569.0	565.3
170°	571.1	568.6	569.4	572.3	568.6
172.5°	573.6	571.1	571.9	574.8	571.1
175°	575.7	572.8	573.6	576.5	572.3
177.5°	576.5	573.6	574.0	576.9	573.2
180°	574.4	574.4	574.4	574.4	574.4

(END OF REPORT)