

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: P1029224

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029224
REPORT IS A COMBINATION OF REPORTS P985222 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D435UB2750-4F0-XX-W2A-D1_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

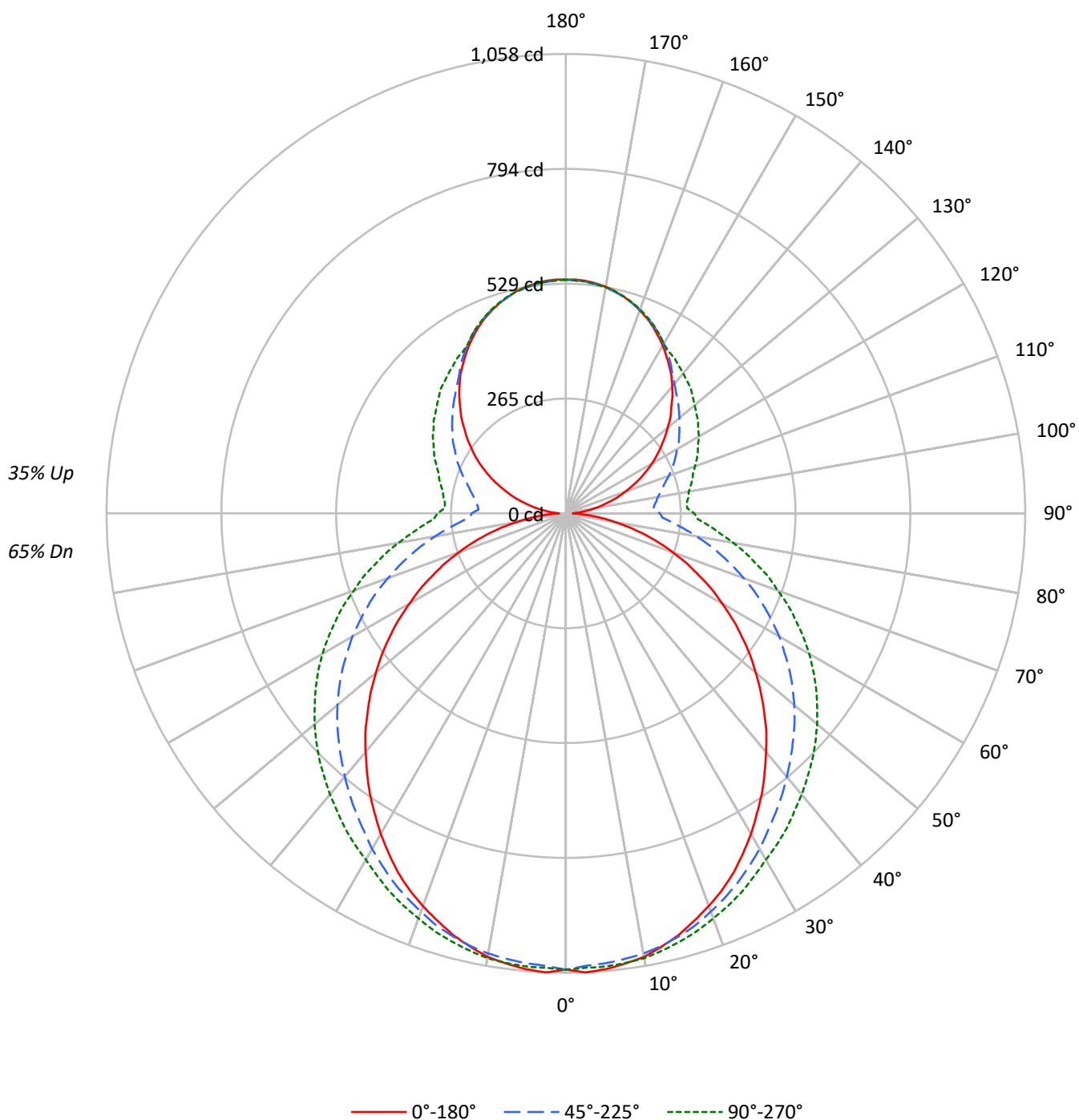
Lumens per Lamp: N/A
Luminaire Lumens: 5515.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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	111	111	111	111	104	104	104	104	91	91	91		80	80	80		70
1	99	94	89	85	93	88	84	80	77	74	71		68	65	63		58
2	89	81	74	68	84	76	70	64	67	62	57		58	54	51		50
3	81	70	62	56	76	66	59	53	58	52	47		51	46	42		44
4	74	62	53	47	69	58	50	44	51	45	40		45	40	36		39
5	68	55	46	40	63	52	44	38	46	39	34		40	35	31		35
6	62	49	41	34	58	47	39	33	41	35	30		36	31	27		32
7	58	44	36	30	54	42	34	29	37	31	26		33	27	23		29
8	54	40	32	26	50	38	31	25	34	28	23		30	25	21		26
9	50	37	29	23	47	35	28	23	31	25	21		28	22	19		24
10	47	34	26	21	44	32	25	20	29	23	19		26	20	17		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.8
10°-20°	285.7	5.2
20°-30°	432.8	7.8
30°-40°	527.1	9.6
40°-50°	567.1	10.3
50°-60°	550.7	10.0
60°-70°	481.0	8.7
70°-80°	370.2	6.7
80°-90°	249.5	4.5
90°-100°	204.3	3.7
100°-110°	230.7	4.2
110°-120°	263.5	4.8
120°-130°	284.1	5.2
130°-140°	286.6	5.2
140°-150°	265.4	4.8
150°-160°	219.9	4.0
160°-170°	145.8	2.6
170°-180°	51.0	0.9
0°-30°	818.1	14.8
0°-40°	1345.2	24.4
0°-60°	2463.0	44.7
0°-90°	3563.6	64.6
90°-120°	698.6	12.7
90°-150°	1534.7	27.8
90°-180°	1951.0	35.4
0°-180°	5515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	109	217	277	296	12
95°	36	112	204	262	279	36
105°	105	151	231	285	302	112
115°	188	207	275	320	335	185
125°	267	271	319	359	372	239
135°	343	348	364	396	407	266
145°	415	418	421	430	436	260
155°	474	476	477	480	478	218
165°	516	516	516	519	517	146
175°	537	536	535	538	535	51
180°	538	538	538	538	538	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	15.7	109.4	216.9	276.9	295.6
92.5°	23.7	108.0	201.4	261.2	279.5
95°	35.8	111.9	204.2	262.1	279.4
97.5°	50.2	119.7	209.9	266.2	284.5
100°	68.4	128.3	215.0	271.3	287.6
102.5°	85.8	138.9	222.9	278.1	294.5
105°	105.2	150.8	230.9	285.0	301.8
107.5°	126.1	164.5	240.6	292.9	307.3
110°	144.6	177.7	252.4	301.1	316.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	166.4	193.5	263.1	310.4	326.3
115°	187.7	207.2	274.9	320.0	335.4
117.5°	207.6	223.3	285.0	329.4	343.2
120°	228.9	238.7	295.9	338.5	354.0
122.5°	248.5	254.5	308.5	348.3	361.1
125°	267.3	271.4	318.8	358.6	371.8
127.5°	287.3	290.8	330.0	366.3	378.7
130°	305.9	310.3	341.4	377.0	387.4
132.5°	326.8	329.8	353.2	385.9	396.7
135°	343.4	348.4	364.5	396.1	406.9
137.5°	363.4	367.5	376.0	404.6	413.3
140°	381.1	383.7	389.0	413.4	420.7
142.5°	399.3	401.9	403.2	422.0	427.8
145°	415.1	418.2	421.0	430.5	436.3
147.5°	430.5	434.6	436.4	438.8	441.6
150°	446.4	449.1	450.9	452.3	450.9
152.5°	460.5	463.2	465.5	467.3	465.5
155°	474.5	475.9	477.3	479.5	478.2
157.5°	486.8	487.7	488.6	491.8	489.5
160°	497.7	498.6	499.1	501.8	500.0
162.5°	507.7	507.7	508.1	511.3	509.1
165°	516.3	515.9	515.9	519.0	516.8
167.5°	524.0	522.7	522.7	525.9	523.6
170°	529.9	528.6	528.1	531.3	528.6
172.5°	534.0	532.7	532.2	535.4	532.7
175°	537.2	535.8	534.9	538.1	535.4
177.5°	539.0	537.7	536.8	539.5	536.8
180°	538.1	538.1	538.1	538.1	538.1

(END OF REPORT)