

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: P1029666

Luminaire Tested: S122DIW-B675D435UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029666
REPORT IS A COMBINATION OF REPORTS P986573 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-D1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

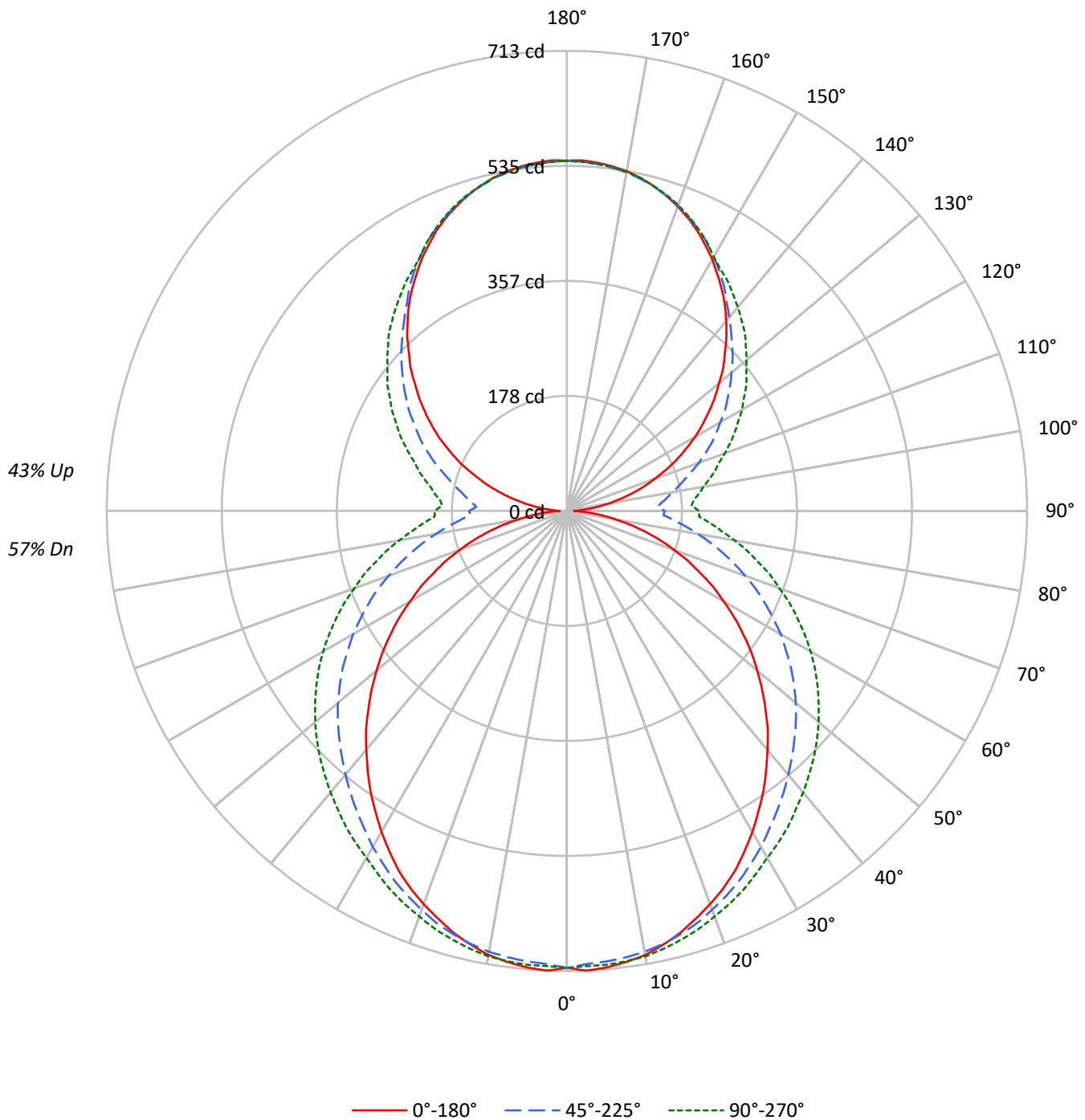
Lumens per Lamp: N/A
Luminaire Lumens: 4221.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																					
0	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	98	93	88	84		90	86	82	78		74	71	68		63	61	58		53	51	49
2	88	80	73	67		82	74	68	63		64	59	55		54	51	47		45	43	40
3	80	70	62	55		74	65	58	52		56	50	46		47	43	39		40	36	34
4	73	61	53	46		67	57	49	44		49	43	38		42	37	33		35	31	28
5	67	54	46	39		62	51	43	37		44	38	33		37	32	29		31	28	24
6	62	49	40	34		57	45	38	32		39	33	28		34	29	25		28	24	21
7	57	44	35	30		53	41	33	28		36	29	25		31	26	22		26	22	19
8	53	40	32	26		49	37	30	25		32	26	22		28	23	19		24	20	17
9	49	36	28	23		45	34	27	22		30	24	20		26	21	17		22	18	15
10	46	33	26	21		43	31	24	20		27	22	18		24	19	16		20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.6
10°-20°	192.5	4.6
20°-30°	291.7	6.9
30°-40°	355.2	8.4
40°-50°	382.2	9.1
50°-60°	371.2	8.8
60°-70°	324.2	7.7
70°-80°	249.5	5.9
80°-90°	168.7	4.0
90°-100°	148.8	3.5
100°-110°	190.9	4.5
110°-120°	238.2	5.6
120°-130°	271.2	6.4
130°-140°	282.6	6.7
140°-150°	266.6	6.3
150°-160°	221.8	5.3
160°-170°	147.1	3.5
170°-180°	51.4	1.2
0°-30°	551.4	13.1
0°-40°	906.6	21.5
0°-60°	1660.0	39.3
0°-90°	2402.3	56.9
90°-120°	578.0	13.7
90°-150°	1398.4	33.1
90°-180°	1819.0	43.1
0°-180°	4221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	76	152	192	204	9
95°	32	85	147	186	198	33
105°	104	135	189	226	237	110
115°	187	201	247	277	287	185
125°	269	273	304	330	339	240
135°	346	351	362	383	390	268
145°	419	422	425	431	434	262
155°	479	480	481	484	482	220
165°	521	520	520	524	521	147
175°	542	540	540	543	540	51
180°	543	543	543	543	543	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	10.8	75.8	151.5	191.6	204.4
92.5°	19.3	77.3	140.4	181.0	193.3
95°	32.0	84.8	147.3	186.3	197.7
97.5°	47.0	95.3	156.6	194.6	206.9
100°	65.4	107.0	165.8	203.8	214.6
102.5°	83.6	120.2	177.4	214.8	225.7
105°	103.6	134.7	189.1	225.9	237.2
107.5°	124.6	151.2	202.5	237.8	246.8
110°	143.8	167.0	217.3	250.2	260.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.8	184.9	231.7	263.2	273.6
115°	187.3	201.4	246.6	277.0	286.9
117.5°	207.8	219.7	260.5	289.9	298.8
120°	229.4	237.1	274.5	303.3	313.2
122.5°	249.1	254.6	290.3	316.7	325.0
125°	268.7	272.8	304.2	330.5	339.3
127.5°	288.8	292.8	318.6	342.5	350.3
130°	307.6	312.5	333.1	356.8	363.2
132.5°	328.7	332.2	348.0	369.3	376.1
135°	345.9	350.9	362.1	383.2	390.1
137.5°	366.0	370.2	376.3	395.3	400.6
140°	383.9	387.0	391.4	407.8	412.1
142.5°	402.2	405.4	406.7	419.5	422.8
145°	418.6	421.8	424.6	431.2	434.5
147.5°	434.2	438.3	440.2	442.1	443.3
150°	450.2	453.0	454.8	456.2	454.8
152.5°	464.4	467.2	469.5	471.3	469.5
155°	478.6	480.0	481.4	483.7	482.3
157.5°	491.0	491.9	492.8	496.0	493.8
160°	502.0	502.9	503.4	506.1	504.3
162.5°	512.1	512.1	512.5	515.7	513.4
165°	520.8	520.3	520.3	523.5	521.2
167.5°	528.6	527.2	527.2	530.4	528.1
170°	534.5	533.1	532.7	535.9	533.1
172.5°	538.6	537.3	536.8	540.0	537.3
175°	541.8	540.5	539.6	542.8	540.0
177.5°	543.7	542.3	541.4	544.1	541.4
180°	542.8	542.8	542.8	542.8	542.8

(END OF REPORT)