

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: P1029372

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029372
REPORT IS A COMBINATION OF REPORTS P985673 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D435UB2750-4F0-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

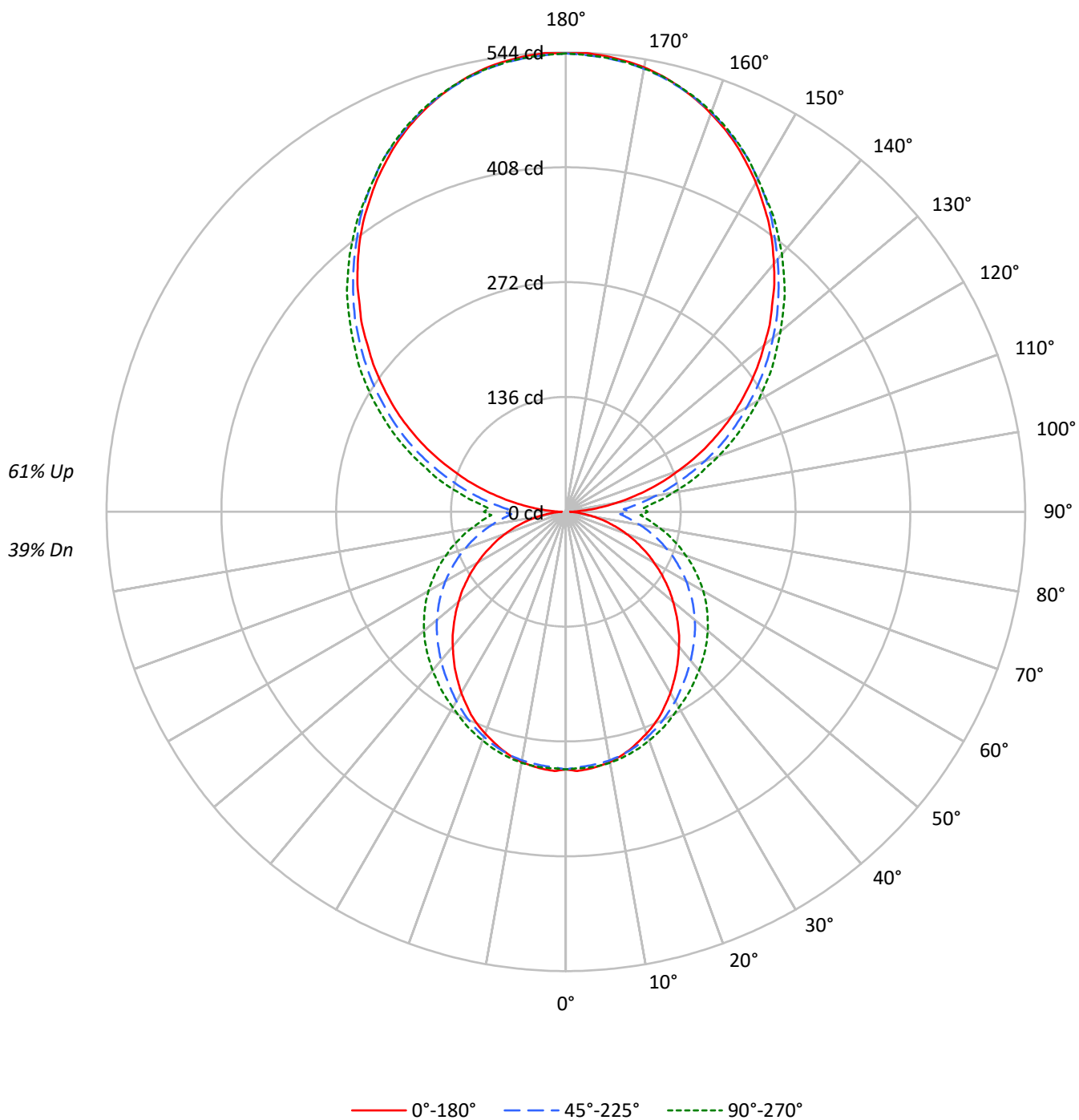
Lumens per Lamp: N/A
Luminaire Lumens: 2682.9 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 26.2
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	94	89	85	81	85	81	77	74	66	63	61	52	50	48	38	37	36			30
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	31	30			24
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25			20
4	71	59	51	45	64	54	47	42	44	39	34	34	31	28	26	23	21			17
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18			14
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16			13
7	55	42	34	29	49	39	32	26	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12			10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	1.1
10°-20°	82.9	3.1
20°-30°	125.7	4.7
30°-40°	153.0	5.7
40°-50°	164.7	6.1
50°-60°	159.9	6.0
60°-70°	139.6	5.2
70°-80°	107.5	4.0
80°-90°	73.5	2.7
90°-100°	83.2	3.1
100°-110°	143.0	5.3
110°-120°	206.6	7.7
120°-130°	253.5	9.4
130°-140°	275.2	10.3
140°-150°	265.3	9.9
150°-160°	221.8	8.3
160°-170°	147.1	5.5
170°-180°	51.4	1.9
0°-30°	237.5	8.9
0°-40°	390.6	14.6
0°-60°	715.1	26.7
0°-90°	1035.8	38.6
90°-120°	432.8	16.1
90°-150°	1226.9	45.7
90°-180°	1647.0	61.4
0°-180°	2682.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	5	36	74	91	97	5
95°	27	53	80	97	101	29
105°	101	115	139	155	160	107
115°	185	193	212	224	228	183
125°	268	272	284	295	298	239
135°	345	350	356	364	367	267
145°	419	422	425	428	428	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°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	4.9	36.1	74.4	91.1	96.9
92.5°	14.1	41.1	68.6	86.3	91.6
95°	27.3	52.7	80.1	96.9	101.3
97.5°	42.9	66.1	93.5	109.9	115.2
100°	61.3	81.3	107.4	123.8	128.1
102.5°	80.1	97.4	123.1	139.4	143.9
105°	100.7	114.8	138.8	155.2	160.1
107.5°	121.7	134.2	156.3	171.8	174.3
110°	141.5	153.0	174.7	188.8	192.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.5	173.2	193.2	205.9	209.9
115°	185.0	192.6	211.5	224.4	227.9
117.5°	206.0	213.3	229.5	241.4	244.5
120°	227.6	233.0	247.1	259.5	262.9
122.5°	247.3	252.3	266.3	277.0	280.0
125°	267.5	271.6	284.3	294.9	298.4
127.5°	287.6	292.2	302.3	311.5	314.1
130°	306.4	311.9	320.2	329.9	331.7
132.5°	327.5	331.6	338.7	346.5	348.7
135°	345.3	350.3	355.7	364.5	366.7
137.5°	365.4	369.6	372.8	380.7	381.9
140°	383.3	387.0	390.2	397.3	398.1
142.5°	401.6	405.4	406.7	412.5	412.9
145°	418.6	421.8	424.6	427.7	428.1
147.5°	434.2	438.3	440.2	441.5	441.0
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)