

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: P1029387

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029387
REPORT IS A COMBINATION OF REPORTS P985698 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-F_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

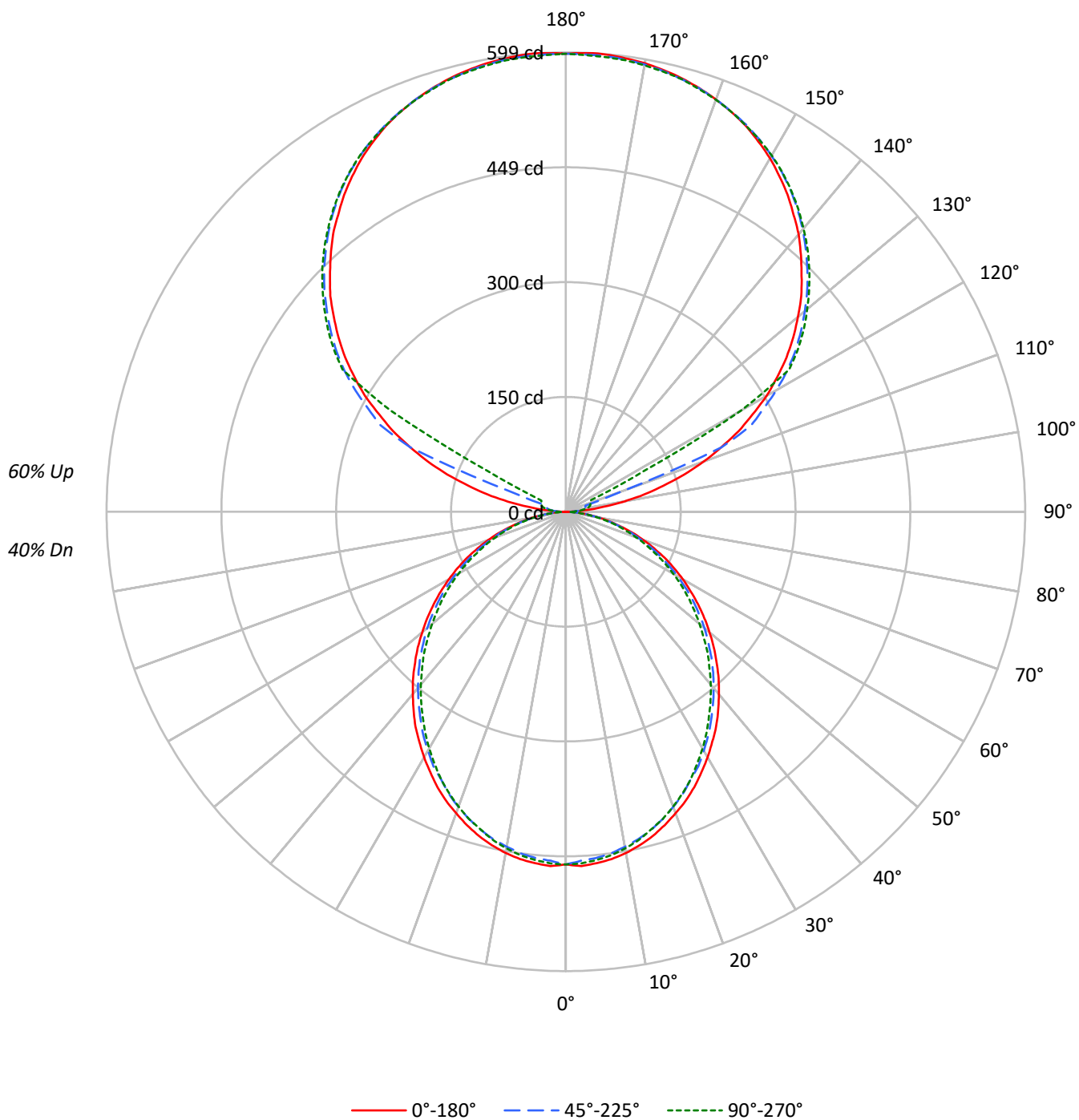
Lumens per Lamp: N/A
Luminaire Lumens: 2922.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40			34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	33			28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28			24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	24			21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	23	21			18
6	61	49	41	36	56	45	38	33	38	32	28	30	26	23	24	21	19			16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17			14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15			12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13			11
10	46	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7280	7280	7280
5°	7292	6938	6890
10°	7232	6622	6491
15°	7127	6304	6072
20°	6983	5958	5675
25°	6840	5595	5278
30°	6661	5255	4863
35°	6491	4896	4455
40°	6282	4542	4069
45°	6074	4191	3690
50°	5847	3833	3296
55°	5609	3451	2925
60°	5341	3037	2537
65°	5044	2618	2132
70°	4673	2156	1721
75°	4156	1663	1328
80°	3529	1131	856
85°	2557	524	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.5
10°-20°	121.8	4.2
20°-30°	179.0	6.1
30°-40°	207.9	7.1
40°-50°	207.6	7.1
50°-60°	181.0	6.2
60°-70°	133.8	4.6
70°-80°	75.7	2.6
80°-90°	21.0	0.7
90°-100°	19.7	0.7
100°-110°	73.4	2.5
110°-120°	194.7	6.7
120°-130°	322.9	11.1
130°-140°	343.0	11.7
140°-150°	318.8	10.9
150°-160°	256.3	8.8
160°-170°	165.2	5.7
170°-180°	56.8	1.9
0°-30°	344.0	11.8
0°-40°	551.9	18.9
0°-60°	940.5	32.2
0°-90°	1171.0	40.1
90°-120°	287.8	9.9
90°-150°	1272.6	43.6
90°-180°	1751.0	59.9
0°-180°	2922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	460	458	453	457	456	44
15°	438	435	429	431	429	123
25°	396	393	385	386	385	182
35°	342	337	330	328	326	213
45°	278	275	268	264	262	215
55°	210	208	202	197	195	188
65°	142	139	135	131	129	140
75°	74	73	71	68	69	79
85°	18	18	17	16	16	20
90°	0	5	9	11	12	3
95°	28	14	17	19	19	33
105°	131	144	26	31	33	140
115°	248	256	267	67	35	245
125°	351	357	365	368	370	313
135°	435	442	446	450	449	336
145°	504	504	511	514	512	315
155°	555	551	557	559	556	256
165°	585	583	584	587	584	165
175°	599	596	596	599	595	57
180°	597	597	597	597	597	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.9	459.9	459.9	459.9	459.9
2.5°	462.5	460.3	455.5	459.9	459.0
5°	459.9	458.1	453.2	456.8	455.9
7.5°	456.8	454.1	449.3	452.8	451.9
10°	451.9	448.8	443.5	447.1	445.7
12.5°	445.3	442.6	437.3	439.5	438.7
15°	437.8	435.1	429.4	431.1	428.9
17.5°	428.5	425.8	420.1	422.3	420.1
20°	418.3	415.7	409.5	410.8	409.0
22.5°	408.1	404.2	398.4	398.4	397.5
25°	396.2	392.7	385.1	386.0	385.1
27.5°	382.9	379.8	374.1	372.8	370.6
30°	369.7	366.1	359.5	358.2	356.4
32.5°	355.5	352.9	345.8	343.1	341.4
35°	341.8	337.4	330.3	327.7	325.5
37.5°	326.3	322.4	315.3	312.2	310.0
40°	310.4	306.9	299.8	295.8	294.1
42.5°	294.9	291.4	284.3	279.9	277.3
45°	278.1	275.0	268.4	263.5	261.8
47.5°	261.8	258.7	251.6	246.7	244.1
50°	244.5	242.3	236.1	229.9	227.7
52.5°	227.7	224.6	218.9	214.0	210.9
55°	210.5	207.8	202.5	197.2	195.0
57.5°	193.2	191.0	185.3	180.0	178.2
60°	176.0	174.2	168.0	163.2	161.8
62.5°	159.2	156.1	151.7	147.2	145.5
65°	141.9	139.3	134.9	130.9	128.7
67.5°	124.3	122.0	118.1	115.0	113.2
70°	107.9	106.1	102.1	99.1	97.3
72.5°	91.1	89.3	87.1	84.0	82.7
75°	74.3	73.4	71.2	68.5	69.4
77.5°	59.3	57.5	56.6	55.3	53.9
80°	44.2	43.8	42.9	41.6	40.7
82.5°	30.1	30.1	29.6	27.9	27.9
85°	18.1	17.7	17.2	15.9	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
90°	0.4	5.2	8.6	10.8	11.7
92.5°	10.8	9.1	10.4	11.2	11.7
95°	28.1	13.8	16.9	19.0	18.6
97.5°	50.6	15.1	22.0	23.3	23.8
100°	76.5	17.3	24.6	28.1	29.0
102.5°	105.0	104.2	25.5	30.3	31.5
105°	131.4	144.3	26.4	31.1	32.8
107.5°	162.1	172.9	27.2	32.0	33.7
110°	191.5	200.5	75.6	32.4	34.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.1	226.9	219.5	33.3	34.6
115°	248.5	255.8	266.6	66.6	35.4
117.5°	274.0	282.6	290.0	228.2	115.0
120°	302.5	309.0	316.8	322.0	263.6
122.5°	326.7	333.6	342.3	344.9	345.3
125°	351.4	357.0	365.2	368.2	369.5
127.5°	373.8	379.9	386.4	390.7	391.1
130°	395.0	401.9	406.7	411.4	411.0
132.5°	416.6	422.2	427.0	430.9	430.4
135°	434.8	441.7	445.6	449.9	449.0
137.5°	453.8	459.0	463.3	467.6	466.3
140°	472.4	475.8	480.6	484.5	482.3
142.5°	487.9	490.9	496.6	500.0	497.9
145°	504.3	503.9	511.3	514.3	512.1
147.5°	518.6	517.3	524.7	526.8	525.1
150°	532.4	529.4	536.3	538.9	536.8
152.5°	544.1	540.6	547.1	549.7	546.7
155°	555.3	551.4	556.6	559.2	555.8
157.5°	564.4	561.0	564.8	567.9	564.4
160°	572.2	569.6	572.2	574.8	571.8
162.5°	579.1	576.5	578.7	581.7	577.8
165°	585.2	582.6	583.9	586.9	583.9
167.5°	589.9	587.3	588.6	591.6	587.7
170°	593.8	591.2	592.1	595.1	591.2
172.5°	596.4	593.8	594.7	597.7	593.8
175°	598.6	595.5	596.4	599.4	595.1
177.5°	599.4	596.4	596.8	599.9	596.0
180°	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)