

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: P1029534

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029534
REPORT IS A COMBINATION OF REPORTS P986148 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D435UB2750-4F0-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

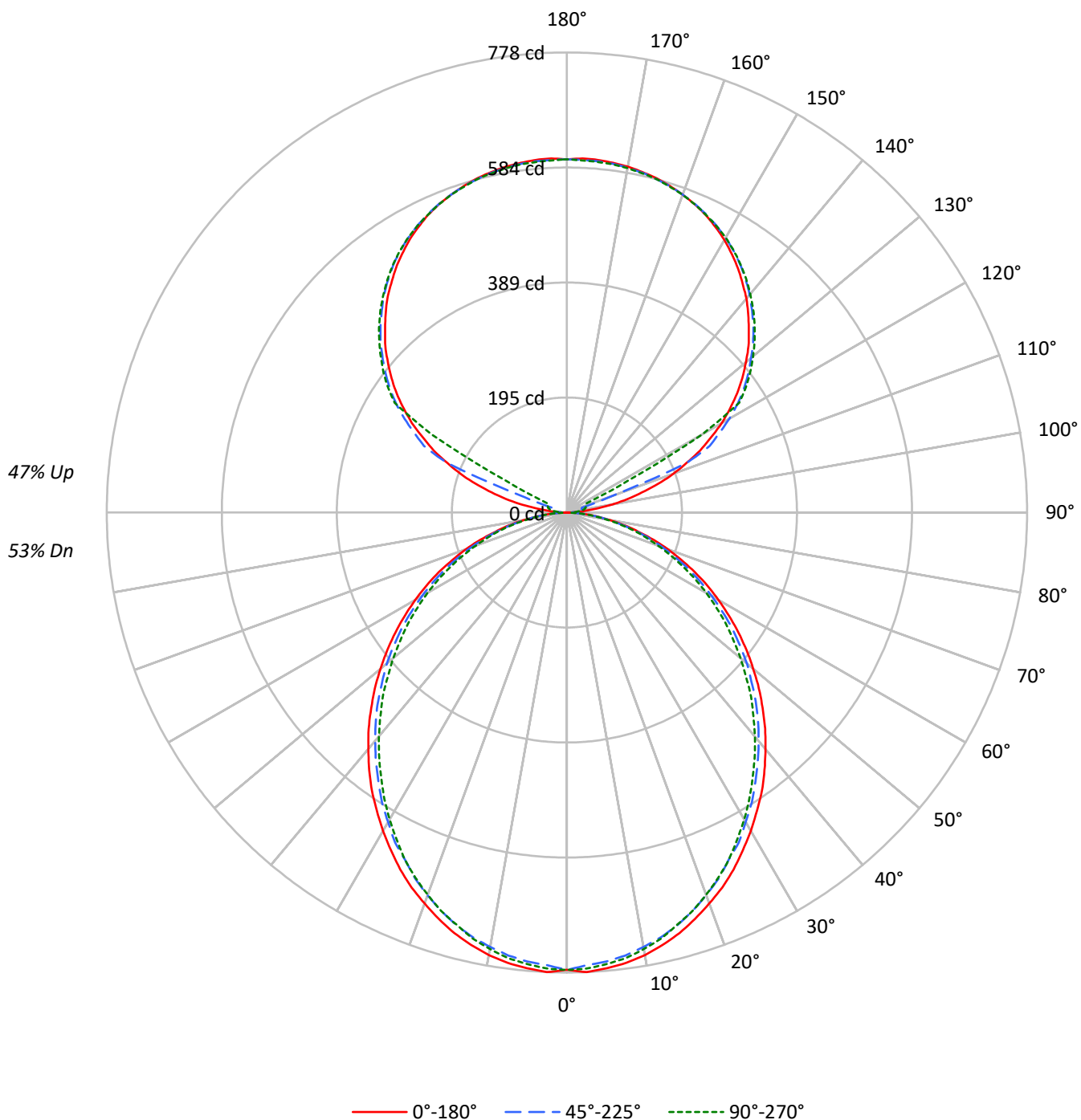
Lumens per Lamp: N/A
Luminaire Lumens: 3720.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	98	94	90	87	91	87	84	81	75	72	70	63	61	59	52	51	50
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42
3	82	72	65	59	75	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	36	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27
6	63	51	43	37	58	48	40	35	41	36	31	35	31	27	30	26	24
7	59	46	38	33	54	43	36	31	37	32	28	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	21	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	2.0
10°-20°	204.8	5.5
20°-30°	301.0	8.1
30°-40°	349.6	9.4
40°-50°	349.2	9.4
50°-60°	304.5	8.2
60°-70°	225.1	6.1
70°-80°	127.3	3.4
80°-90°	34.7	0.9
90°-100°	19.7	0.5
100°-110°	73.4	2.0
110°-120°	194.7	5.2
120°-130°	322.9	8.7
130°-140°	343.0	9.2
140°-150°	318.8	8.6
150°-160°	256.3	6.9
160°-170°	165.2	4.4
170°-180°	56.8	1.5
0°-30°	578.7	15.6
0°-40°	928.3	25.0
0°-60°	1582.0	42.5
0°-90°	1969.0	52.9
90°-120°	287.8	7.7
90°-150°	1272.6	34.2
90°-180°	1751.0	47.1
0°-180°	3720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
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°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
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)