

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: P1029529

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029529
REPORT IS A COMBINATION OF REPORTS P986138 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-F1_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

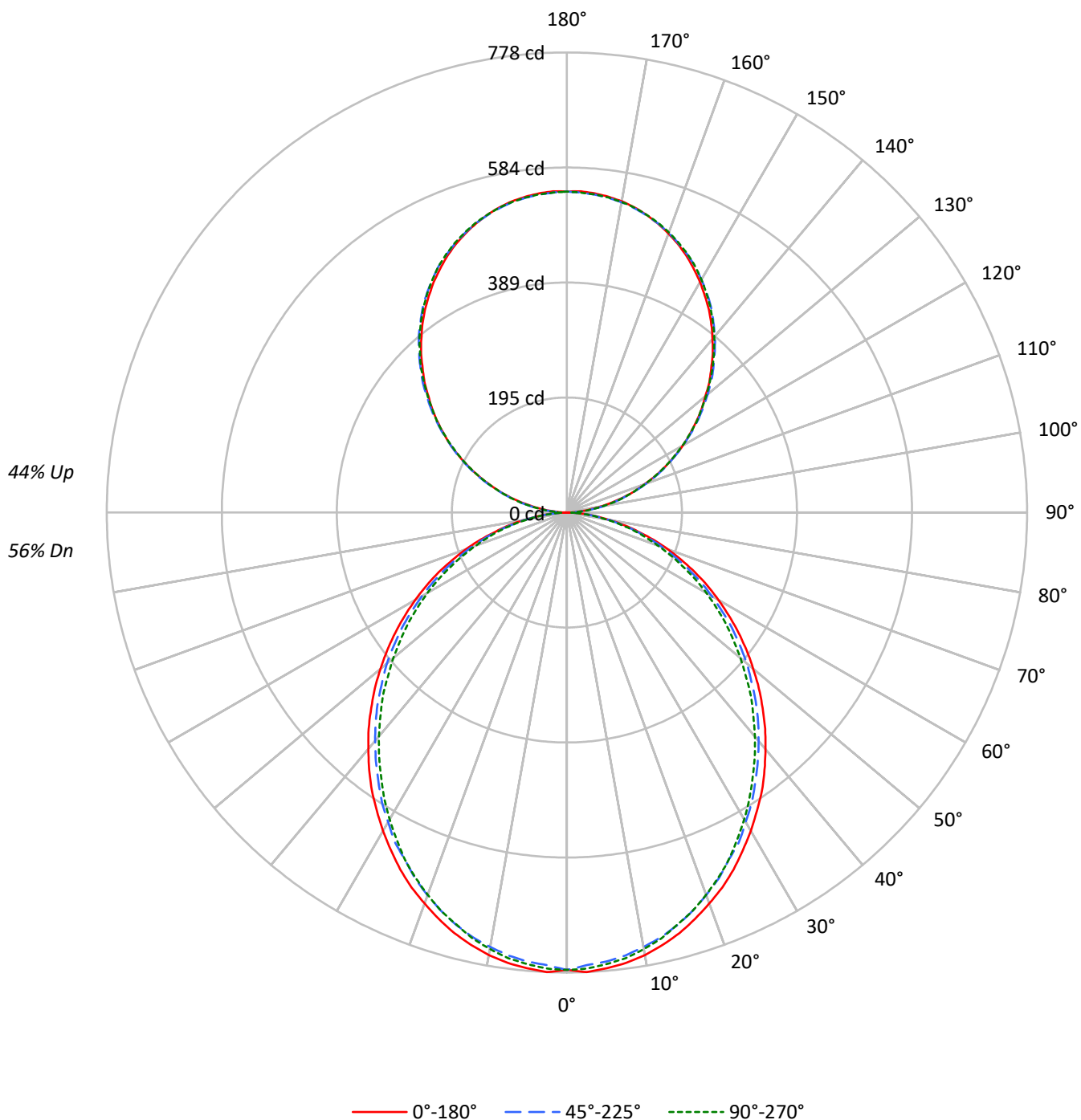
Lumens per Lamp: N/A
Luminaire Lumens: 3487.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52
2	90	83	77	71	84	77	72	67	67	63	59	57	54	52	48	46	44
3	82	73	65	60	76	68	61	56	59	54	50	51	47	44	43	40	38
4	75	65	57	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	58	49	43	64	54	47	41	47	41	37	41	36	32	35	31	28
6	64	52	43	38	59	48	41	36	42	36	32	37	32	28	31	28	25
7	59	47	39	33	55	44	37	31	38	33	28	33	29	25	29	25	22
8	55	42	35	29	51	40	33	28	35	29	25	31	26	22	26	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	28	23	44	34	27	22	30	24	20	26	22	18	23	19	16

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	2.1
10°-20°	204.8	5.9
20°-30°	301.0	8.6
30°-40°	349.6	10.0
40°-50°	349.2	10.0
50°-60°	304.5	8.7
60°-70°	225.1	6.5
70°-80°	127.3	3.7
80°-90°	35.2	1.0
90°-100°	33.6	1.0
100°-110°	106.7	3.1
110°-120°	182.6	5.2
120°-130°	240.2	6.9
130°-140°	269.6	7.7
140°-150°	264.4	7.6
150°-160°	221.8	6.4
160°-170°	147.1	4.2
170°-180°	51.4	1.5
0°-30°	578.7	16.6
0°-40°	928.3	26.6
0°-60°	1582.0	45.4
0°-90°	1969.5	56.5
90°-120°	322.9	9.3
90°-150°	1097.1	31.5
90°-180°	1517.0	43.5
0°-180°	3487.0	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	6	16	15	16	3
95°	24	28	29	29	28	27
105°	98	100	101	102	102	104
115°	183	186	185	185	183	181
125°	267	271	269	268	268	238
135°	345	350	351	350	349	267
145°	419	422	425	425	423	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°	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°	0.5	6.0	16.0	15.1	15.6
92.5°	10.1	13.7	14.2	14.7	14.7
95°	23.8	28.4	29.3	29.3	28.4
97.5°	39.8	44.0	45.8	45.8	45.8
100°	58.2	61.8	63.2	63.2	62.7
102.5°	77.4	80.2	82.0	82.4	82.0
105°	98.5	99.8	100.8	101.7	101.7
107.5°	119.5	121.4	121.4	121.8	119.5
110°	139.7	142.4	142.4	142.4	141.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.7	164.4	164.0	162.6	161.7
115°	183.2	186.0	185.0	184.6	183.2
117.5°	204.7	208.4	206.1	204.7	203.4
120°	226.3	229.9	226.3	226.3	224.9
122.5°	246.0	250.5	248.2	246.9	246.0
125°	266.6	270.7	269.3	267.9	267.5
127.5°	286.7	291.8	289.9	288.1	286.7
130°	305.5	311.5	310.5	309.6	307.8
132.5°	326.6	331.2	331.6	329.3	327.9
135°	344.9	349.9	350.8	350.4	349.0
137.5°	365.0	369.2	370.1	369.6	367.8
140°	382.9	387.0	389.3	389.3	387.5
142.5°	401.2	405.4	406.7	407.2	405.4
145°	418.6	421.8	424.6	425.0	423.2
147.5°	434.2	438.3	440.2	441.1	439.2
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)