

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: P1029521

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029521
REPORT IS A COMBINATION OF REPORTS P986125 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-D1_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

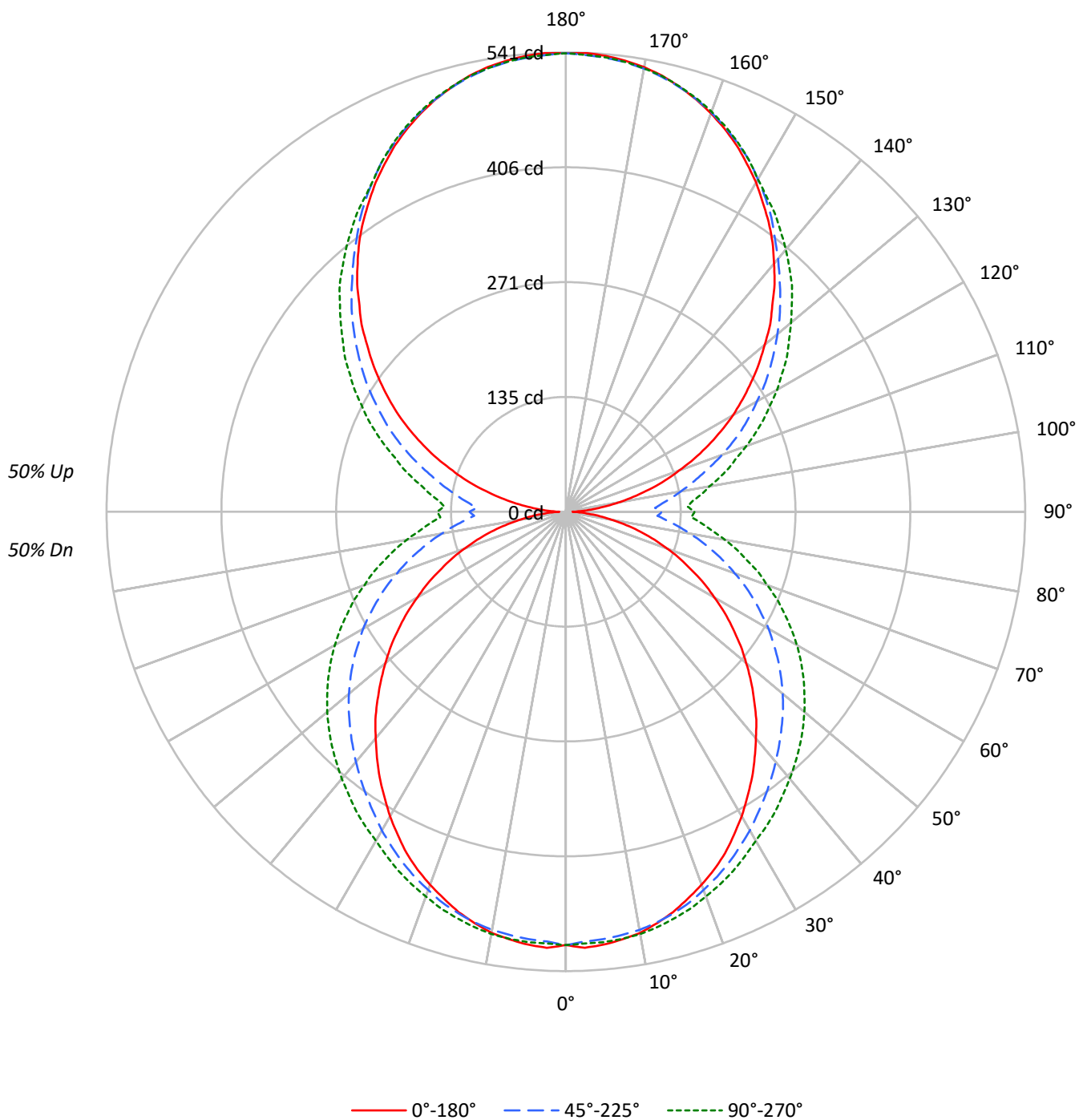
Lumens per Lamp: N/A
Luminaire Lumens: 3458.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1029521

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_4000K

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	96	91	87	83	88	84	80	77	71	68	65	59	56	55	47	46	44	44	44	44
2	87	79	72	66	80	73	67	62	61	57	53	51	47	44	41	38	36	36	36	36
3	79	69	61	55	72	64	57	51	53	48	44	44	40	37	36	33	30	30	30	30
4	72	61	52	46	66	56	49	43	47	41	37	39	35	31	32	28	26	26	26	26
5	66	54	45	39	60	50	42	36	42	36	32	35	30	27	28	25	22	22	22	22
6	61	48	40	34	56	45	37	31	38	32	27	31	27	23	26	22	19	19	19	19
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	20	17	17	17	17
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15	15	15	15
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	20	16	14	14	14	14
10	45	33	25	20	41	30	24	19	26	21	17	22	18	15	18	15	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6849 cd/sqm

TEST NUMBER: P1029521

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.4
10°-20°	138.7	4.0
20°-30°	210.2	6.1
30°-40°	256.0	7.4
40°-50°	275.4	8.0
50°-60°	267.5	7.7
60°-70°	233.6	6.8
70°-80°	179.8	5.2
80°-90°	121.9	3.5
90°-100°	116.5	3.4
100°-110°	166.8	4.8
110°-120°	221.7	6.4
120°-130°	261.3	7.6
130°-140°	277.6	8.0
140°-150°	264.6	7.7
150°-160°	220.6	6.4
160°-170°	146.3	4.2
170°-180°	51.1	1.5
0°-30°	397.3	11.5
0°-40°	653.3	18.9
0°-60°	1196.2	34.6
0°-90°	1731.5	50.1
90°-120°	505.0	14.6
90°-150°	1308.4	37.8
90°-180°	1727.0	49.9
0°-180°	3458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	8	56	114	142	152	7
95°	30	69	114	142	150	31
105°	102	124	164	191	199	108
115°	185	196	228	250	257	183
125°	267	271	293	312	318	239
135°	344	349	357	372	377	266
145°	416	420	422	427	429	260
155°	476	478	479	481	480	219
165°	518	518	518	521	518	146
175°	539	538	537	540	537	51
180°	540	540	540	540	540	

TEST NUMBER: P1029521

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	7.9	56.2	113.5	142.2	151.6
92.5°	16.7	59.6	105.1	134.4	143.3
95°	29.6	68.9	114.2	142.3	150.2
97.5°	44.8	80.7	125.5	152.8	161.7
100°	63.1	94.0	136.9	164.2	171.8
102.5°	81.4	108.5	150.4	177.4	185.1
105°	101.7	124.4	163.8	190.6	198.7
107.5°	122.6	142.1	179.1	204.8	210.6
110°	142.0	159.4	195.7	219.3	226.1

TEST NUMBER: P1029521

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.8	178.4	211.9	234.2	241.4
115°	185.2	196.1	228.5	250.2	256.9
117.5°	205.9	215.4	244.2	265.1	271.1
120°	227.3	233.9	259.9	280.6	287.3
122.5°	246.9	252.2	277.2	295.9	301.6
125°	266.7	270.8	293.0	311.6	317.9
127.5°	286.7	290.9	309.1	325.8	331.1
130°	305.4	310.5	325.2	342.0	346.1
132.5°	326.4	330.1	341.7	356.4	361.0
135°	343.8	348.8	357.1	372.2	376.8
137.5°	363.8	367.9	372.5	386.2	389.6
140°	381.6	385.0	388.8	400.6	403.1
142.5°	399.8	403.2	404.6	413.9	415.8
145°	416.4	419.6	422.4	427.2	429.1
147.5°	431.9	436.0	437.8	439.5	439.9
150°	447.9	450.6	452.4	453.8	452.4
152.5°	462.0	464.7	467.0	468.8	467.0
155°	476.1	477.5	478.8	481.1	479.8
157.5°	488.4	489.3	490.2	493.4	491.2
160°	499.4	500.3	500.7	503.5	501.6
162.5°	509.4	509.4	509.8	513.0	510.7
165°	518.0	517.6	517.6	520.8	518.5
167.5°	525.8	524.4	524.4	527.6	525.3
170°	531.7	530.3	529.9	533.1	530.3
172.5°	535.8	534.4	534.0	537.2	534.4
175°	539.0	537.6	536.7	539.9	537.2
177.5°	540.8	539.4	538.5	541.3	538.5
180°	539.9	539.9	539.9	539.9	539.9

(END OF REPORT)