

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: P1029526

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029526
REPORT IS A COMBINATION OF REPORTS P986135 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-D_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

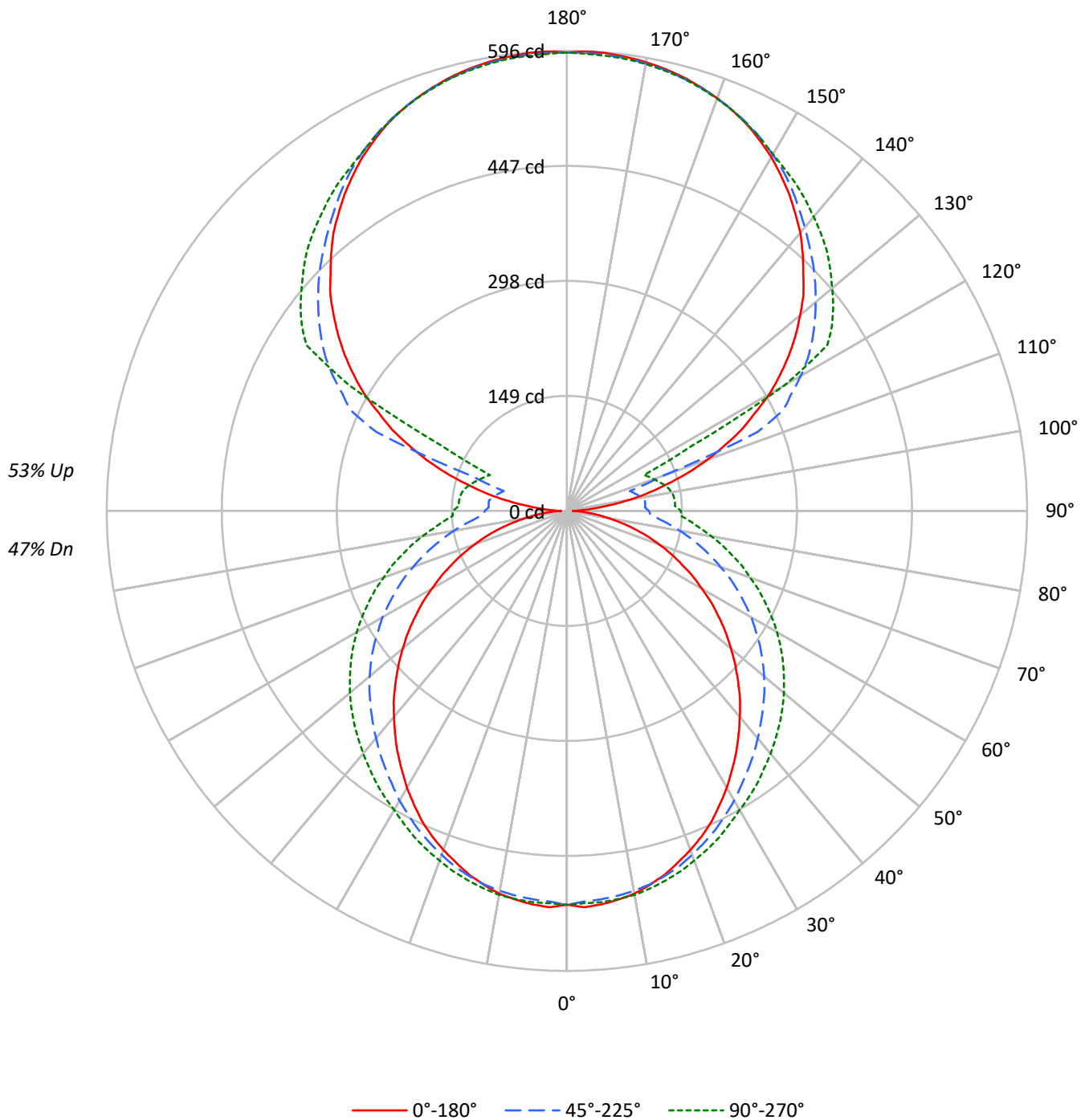
Lumens per Lamp: N/A
Luminaire Lumens: 3689.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	98	98	98	98		82	82	82		67	67	67		53	53	53
1	96	91	86	82	88	83	80	76		69	67	64		57	55	53		45	43	42
2	87	78	72	66	79	72	66	61		60	56	52		49	46	43		39	36	34
3	79	68	61	54	72	63	56	51		52	47	43		43	39	36		34	31	29
4	72	60	52	46	65	55	48	42		46	41	36		38	34	30		30	27	24
5	66	53	45	39	60	49	42	36		41	35	31		34	29	26		27	24	21
6	60	48	39	33	55	44	37	31		37	31	27		30	26	22		24	21	18
7	56	43	35	29	51	40	32	27		33	28	23		28	23	20		22	19	16
8	52	39	31	26	47	36	29	24		30	25	21		25	21	17		20	17	14
9	48	35	28	23	44	33	26	21		28	22	18		23	19	16		19	15	13
10	45	32	25	20	41	30	23	19		26	20	16		21	17	14		17	14	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.3
10°-20°	138.7	3.8
20°-30°	210.2	5.7
30°-40°	256.0	6.9
40°-50°	275.4	7.5
50°-60°	267.5	7.3
60°-70°	233.6	6.3
70°-80°	179.8	4.9
80°-90°	121.5	3.3
90°-100°	102.7	2.8
100°-110°	133.7	3.6
110°-120°	233.7	6.3
120°-130°	343.4	9.3
130°-140°	350.4	9.5
140°-150°	318.6	8.6
150°-160°	254.9	6.9
160°-170°	164.2	4.5
170°-180°	56.5	1.5
0°-30°	397.3	10.8
0°-40°	653.3	17.7
0°-60°	1196.2	32.4
0°-90°	1731.0	46.9
90°-120°	470.0	12.7
90°-150°	1482.4	40.2
90°-180°	1958.0	53.1
0°-180°	3689.0	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	106	138	148	7
95°	34	54	102	132	140	38
105°	134	169	90	120	130	144
115°	250	266	310	133	110	246
125°	351	356	388	411	419	313
135°	433	440	451	471	476	335
145°	502	501	508	516	517	314
155°	552	548	554	556	553	254
165°	582	579	580	584	580	164
175°	595	592	593	596	592	57
180°	594	594	594	594	594	

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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°	7.8	55.5	106.2	137.9	147.7
92.5°	17.4	54.9	101.3	131.0	140.3
95°	33.8	54.5	101.8	132.0	140.5
97.5°	55.5	52.0	101.8	130.4	139.7
100°	81.3	49.7	98.5	129.2	138.2
102.5°	108.8	132.4	94.2	125.5	134.9
105°	134.3	168.6	89.8	120.4	130.3
107.5°	164.8	193.3	85.5	115.4	125.2
110°	193.4	217.1	129.2	109.8	119.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.9	240.4	267.1	105.6	115.0
115°	250.1	265.5	309.5	132.8	109.9
117.5°	274.6	289.1	327.5	288.3	183.1
120°	303.0	312.4	349.8	375.6	325.7
122.5°	327.1	334.7	370.6	393.2	400.2
125°	350.8	356.4	388.2	411.2	419.2
127.5°	373.2	378.4	404.9	427.7	434.8
130°	394.2	400.3	420.6	443.1	448.5
132.5°	415.7	420.5	436.3	457.2	462.8
135°	433.0	439.9	451.1	471.0	476.1
137.5°	451.9	457.0	465.0	483.4	487.3
140°	470.4	473.1	479.3	495.0	497.2
142.5°	485.8	488.1	493.7	506.1	507.6
145°	501.5	501.0	508.3	515.7	517.3
147.5°	515.6	514.4	521.7	524.5	525.1
150°	529.4	526.4	533.3	535.8	533.7
152.5°	541.0	537.6	544.0	546.6	543.6
155°	552.2	548.3	553.5	556.0	552.6
157.5°	561.2	557.8	561.6	564.6	561.2
160°	568.9	566.3	568.9	571.5	568.5
162.5°	575.8	573.2	575.4	578.4	574.5
165°	581.8	579.2	580.5	583.5	580.5
167.5°	586.5	584.0	585.3	588.3	584.4
170°	590.4	587.8	588.7	591.7	587.8
172.5°	593.0	590.4	591.3	594.3	590.4
175°	595.1	592.1	593.0	596.0	591.7
177.5°	596.0	593.0	593.4	596.4	592.6
180°	593.8	593.8	593.8	593.8	593.8

(END OF REPORT)