

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: P1029527

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029527
REPORT IS A COMBINATION OF REPORTS P986136 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_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

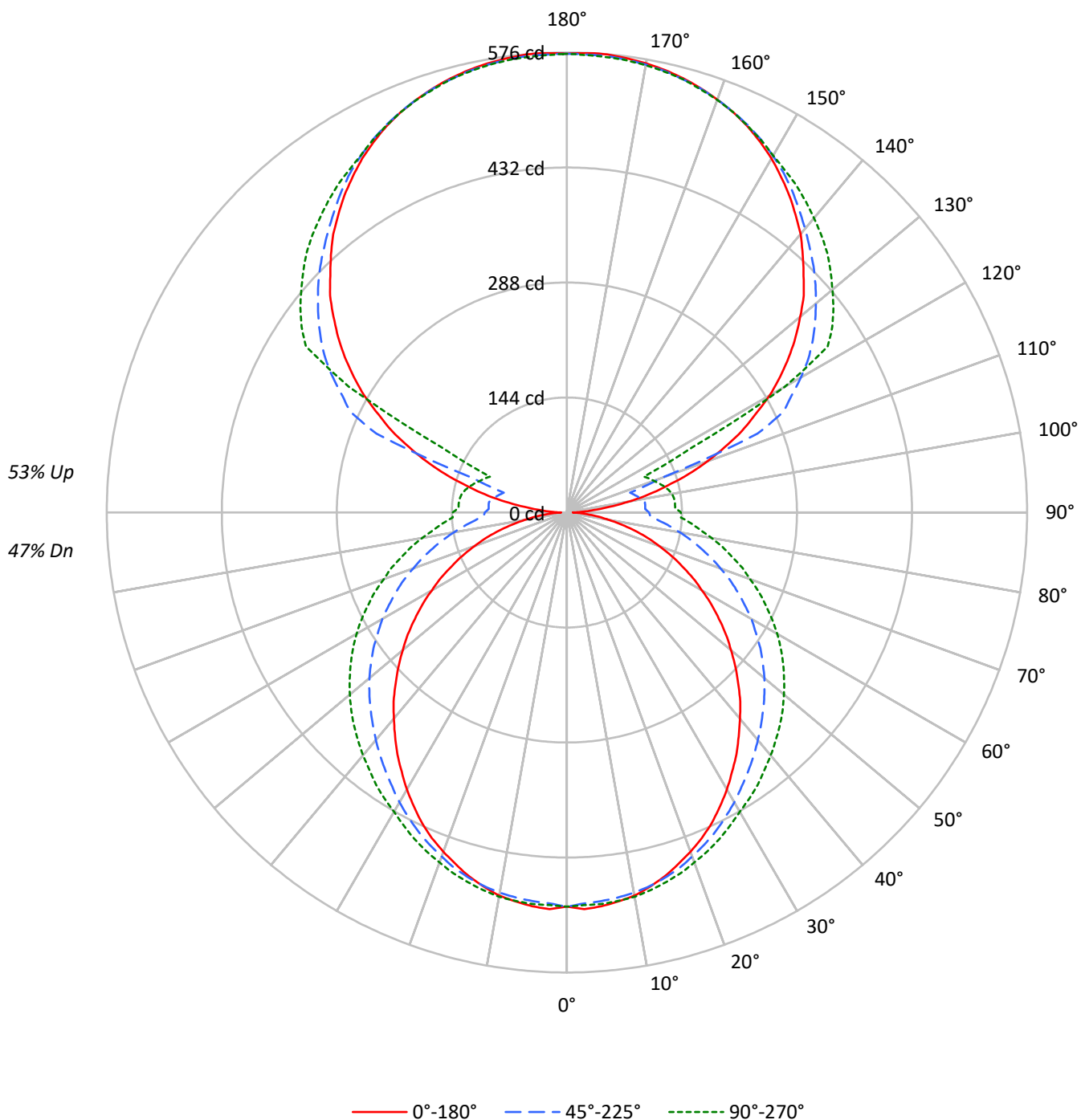
Lumens per Lamp: N/A
Luminaire Lumens: 3568.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53			47
1	96	91	86	82	88	83	80	76	69	67	64	57	55	53	45	43	42			37
2	87	78	72	66	79	72	66	61	60	56	52	49	46	43	39	36	34			30
3	79	68	61	54	72	63	56	51	52	47	43	43	39	36	34	31	29			24
4	72	60	52	46	65	55	48	42	46	41	36	38	34	30	30	27	24			21
5	66	53	45	39	60	49	42	36	41	35	31	34	29	26	27	24	21			18
6	60	48	39	33	55	44	37	31	37	31	27	30	26	22	24	21	18			15
7	56	43	35	29	51	40	32	27	33	28	23	28	23	20	22	19	16			13
8	52	39	31	26	47	36	29	24	30	25	21	25	21	17	20	17	14			12
9	48	35	28	23	44	33	26	21	28	22	18	23	19	16	19	15	13			11
10	45	32	25	20	41	30	23	19	26	20	16	21	17	14	17	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7812	7812	7812
5°	7847	7478	7437
10°	7795	7220	7114
15°	7684	6952	6784
20°	7545	6669	6470
25°	7408	6401	6186
30°	7216	6127	5904
35°	7023	5863	5698
40°	6819	5635	5491
45°	6622	5428	5312
50°	6414	5238	5135
55°	6193	5035	4955
60°	5926	4824	4767
65°	5645	4580	4548
70°	5327	4319	4315
75°	4923	4060	4092
80°	4279	3789	3864
85°	3630	3534	3666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.3
10°-20°	134.2	3.8
20°-30°	203.3	5.7
30°-40°	247.6	6.9
40°-50°	266.4	7.5
50°-60°	258.7	7.3
60°-70°	225.9	6.3
70°-80°	173.9	4.9
80°-90°	117.5	3.3
90°-100°	99.3	2.8
100°-110°	129.3	3.6
110°-120°	226.0	6.3
120°-130°	332.2	9.3
130°-140°	339.0	9.5
140°-150°	308.2	8.6
150°-160°	246.5	6.9
160°-170°	158.8	4.5
170°-180°	54.7	1.5
0°-30°	384.3	10.8
0°-40°	631.8	17.7
0°-60°	1156.9	32.4
0°-90°	1674.1	46.9
90°-120°	454.6	12.7
90°-150°	1433.9	40.2
90°-180°	1894.0	53.1
0°-180°	3568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	493	488	493	492	47
15°	472	474	474	480	479	133
25°	429	434	441	449	451	197
35°	370	382	396	411	416	231
45°	303	323	348	370	377	234
55°	232	258	295	321	330	208
65°	159	194	236	265	275	158
75°	88	128	174	204	214	93
85°	26	70	116	146	156	27
90°	8	54	103	133	143	7
95°	33	53	98	128	136	36
105°	130	163	87	116	126	139
115°	242	257	299	128	106	238
125°	339	345	376	398	406	303
135°	419	426	436	456	460	324
145°	485	485	492	499	500	304
155°	534	530	535	538	534	246
165°	563	560	562	564	562	159
175°	576	573	574	576	572	55
180°	574	574	574	574	574	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	497.1	494.9	489.9	493.5	492.1
5°	494.9	492.8	488.5	492.8	492.1
7.5°	491.3	489.9	486.3	491.3	490.6
10°	487.1	485.6	483.5	489.2	488.5
12.5°	479.9	480.6	479.2	484.9	484.2
15°	472.0	473.5	473.5	479.9	479.2
17.5°	462.0	464.9	467.0	473.5	473.5
20°	452.0	455.6	458.4	466.3	466.3
22.5°	441.3	445.6	449.9	457.7	459.2
25°	429.1	434.1	440.6	449.2	451.3
27.5°	414.8	422.7	429.8	440.6	442.0
30°	400.5	409.8	419.1	430.6	432.7
32.5°	384.8	395.5	407.0	420.5	424.8
35°	369.8	381.9	395.5	411.2	416.3
37.5°	353.3	366.9	384.1	401.2	406.2
40°	336.9	352.6	371.9	390.5	396.9
42.5°	321.1	336.9	359.7	380.5	386.9
45°	303.2	322.6	347.6	369.8	376.9
47.5°	286.1	306.8	335.4	358.3	366.2
50°	268.2	290.4	322.6	346.9	354.7
52.5°	251.0	274.6	309.0	334.0	342.6
55°	232.4	258.2	295.4	321.1	330.4
57.5°	214.6	243.2	280.4	308.3	317.6
60°	195.3	226.0	266.8	294.0	304.0
62.5°	178.1	210.3	251.0	280.4	289.7
65°	158.8	193.8	236.0	265.3	274.6
67.5°	141.6	178.1	221.0	250.3	260.3
70°	123.0	160.2	204.5	235.3	243.9
72.5°	105.9	144.5	189.5	219.6	230.3
75°	88.0	128.0	173.8	204.5	213.8
77.5°	70.8	112.3	158.8	189.5	199.5
80°	53.6	97.3	143.8	173.8	183.8
82.5°	39.3	82.2	129.5	159.5	168.8
85°	25.7	70.1	115.9	145.9	155.9
87.5°	15.7	58.6	104.4	133.7	143.0
90°	7.6	53.6	102.7	133.4	142.8
92.5°	16.8	53.0	98.0	126.7	135.6
95°	32.7	52.6	98.4	127.7	135.9
97.5°	53.6	50.3	98.4	126.1	135.2
100°	78.6	48.1	95.2	125.0	133.7
102.5°	105.3	128.1	91.0	121.4	130.4
105°	130.0	163.1	86.9	116.4	126.0
107.5°	159.5	187.0	82.7	111.6	121.1
110°	187.0	210.1	124.9	106.3	115.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.6	232.5	258.3	102.1	111.3
115°	241.9	256.8	299.4	128.4	106.3
117.5°	265.6	279.7	316.8	278.9	177.1
120°	293.0	302.2	338.3	363.3	315.0
122.5°	316.3	323.8	358.5	380.3	387.2
125°	339.3	344.7	375.5	397.7	405.5
127.5°	360.9	366.0	391.6	413.6	420.5
130°	381.3	387.2	406.8	428.6	433.9
132.5°	402.1	406.8	422.1	442.3	447.6
135°	418.8	425.5	436.4	455.6	460.5
137.5°	437.1	442.1	449.9	467.6	471.4
140°	455.0	457.6	463.6	478.8	481.1
142.5°	470.0	472.2	477.6	489.5	491.0
145°	485.1	484.6	491.7	498.9	500.4
147.5°	498.8	497.5	504.6	507.4	507.9
150°	512.1	509.2	515.8	518.3	516.2
152.5°	523.3	520.0	526.2	528.7	525.8
155°	534.1	530.4	535.3	537.8	534.5
157.5°	542.8	539.5	543.2	546.2	542.8
160°	550.3	547.8	550.3	552.8	549.9
162.5°	557.0	554.5	556.5	559.5	555.7
165°	562.8	560.3	561.5	564.4	561.5
167.5°	567.4	564.9	566.1	569.0	565.3
170°	571.1	568.6	569.4	572.3	568.6
172.5°	573.6	571.1	571.9	574.8	571.1
175°	575.7	572.8	573.6	576.5	572.3
177.5°	576.5	573.6	574.0	576.9	573.2
180°	574.4	574.4	574.4	574.4	574.4

(END OF REPORT)