

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: P1029522

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029522
REPORT IS A COMBINATION OF REPORTS P986126 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_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

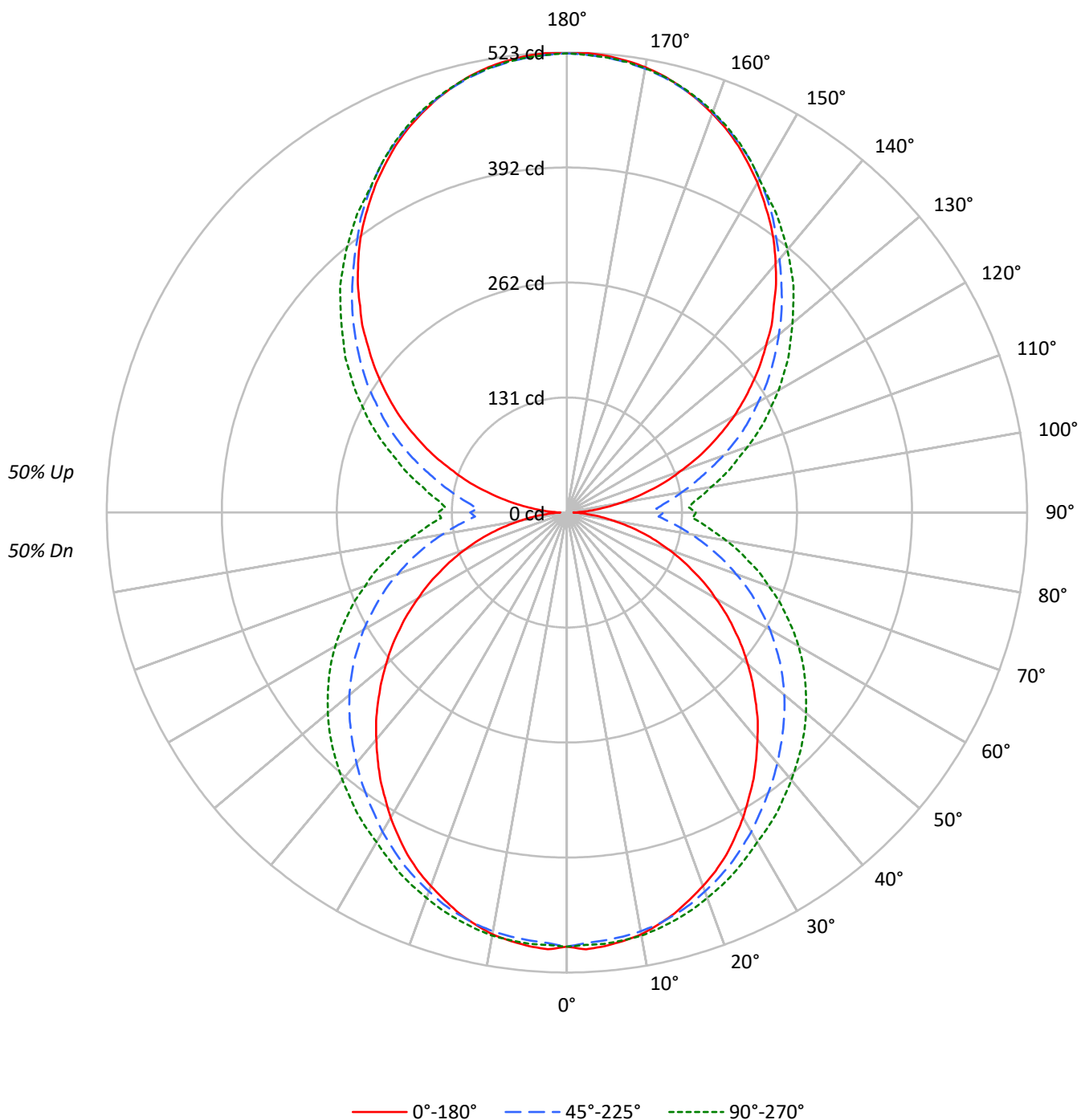
Lumens per Lamp: N/A
Luminaire Lumens: 3344.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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	57	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	29	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°	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	1.4
10°-20°	134.2	4.0
20°-30°	203.3	6.1
30°-40°	247.6	7.4
40°-50°	266.4	8.0
50°-60°	258.7	7.7
60°-70°	225.9	6.8
70°-80°	173.9	5.2
80°-90°	117.9	3.5
90°-100°	112.6	3.4
100°-110°	161.3	4.8
110°-120°	214.4	6.4
120°-130°	252.6	7.6
130°-140°	268.4	8.0
140°-150°	255.8	7.7
150°-160°	213.3	6.4
160°-170°	141.5	4.2
170°-180°	49.4	1.5
0°-30°	384.3	11.5
0°-40°	631.8	18.9
0°-60°	1156.9	34.6
0°-90°	1674.6	50.1
90°-120°	488.4	14.6
90°-150°	1265.2	37.8
90°-180°	1669.0	49.9
0°-180°	3344.0	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	110	138	147	6
95°	29	67	110	138	145	30
105°	98	120	158	184	192	104
115°	179	190	221	242	248	177
125°	258	262	283	301	307	231
135°	332	337	345	360	364	257
145°	403	406	408	413	415	252
155°	460	462	463	465	464	212
165°	501	500	500	504	501	141
175°	521	520	519	522	519	50
180°	522	522	522	522	522	

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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	54.3	109.8	137.5	146.6
92.5°	16.1	57.5	101.7	130.0	138.5
95°	28.6	66.6	110.4	137.6	145.3
97.5°	43.3	78.1	121.3	147.8	156.4
100°	60.9	91.0	132.3	158.8	166.3
102.5°	78.8	105.0	145.4	171.6	179.0
105°	98.3	120.3	158.4	184.3	192.2
107.5°	118.6	137.4	173.2	198.0	203.7
110°	137.3	154.2	189.2	212.1	218.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	158.4	172.5	204.9	226.5	233.5
115°	179.1	189.6	220.9	241.9	248.4
117.5°	199.0	208.3	236.1	256.3	262.1
120°	219.7	226.1	251.2	271.2	277.8
122.5°	238.7	243.9	268.1	286.0	291.7
125°	257.8	261.8	283.3	301.3	307.4
127.5°	277.2	281.3	298.9	315.0	320.1
130°	295.2	300.3	314.4	330.7	334.6
132.5°	315.5	319.2	330.3	344.6	349.0
135°	332.4	337.3	345.4	359.9	364.3
137.5°	351.8	355.8	360.3	373.4	376.7
140°	369.0	372.3	375.9	387.4	389.9
142.5°	386.6	389.9	391.2	400.2	402.1
145°	402.7	405.7	408.4	413.1	415.0
147.5°	417.6	421.6	423.4	424.9	425.4
150°	433.0	435.7	437.5	438.8	437.5
152.5°	446.7	449.3	451.6	453.3	451.6
155°	460.4	461.7	463.0	465.2	463.9
157.5°	472.3	473.1	474.0	477.1	474.9
160°	482.8	483.7	484.2	486.8	485.0
162.5°	492.5	492.5	493.0	496.0	493.8
165°	500.9	500.4	500.4	503.5	501.3
167.5°	508.4	507.1	507.1	510.1	507.9
170°	514.1	512.8	512.3	515.4	512.8
172.5°	518.1	516.7	516.3	519.4	516.7
175°	521.2	519.8	519.0	522.0	519.4
177.5°	522.9	521.6	520.7	523.4	520.7
180°	522.0	522.0	522.0	522.0	522.0

(END OF REPORT)