

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: P1029518

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029518
REPORT IS A COMBINATION OF REPORTS P986122 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

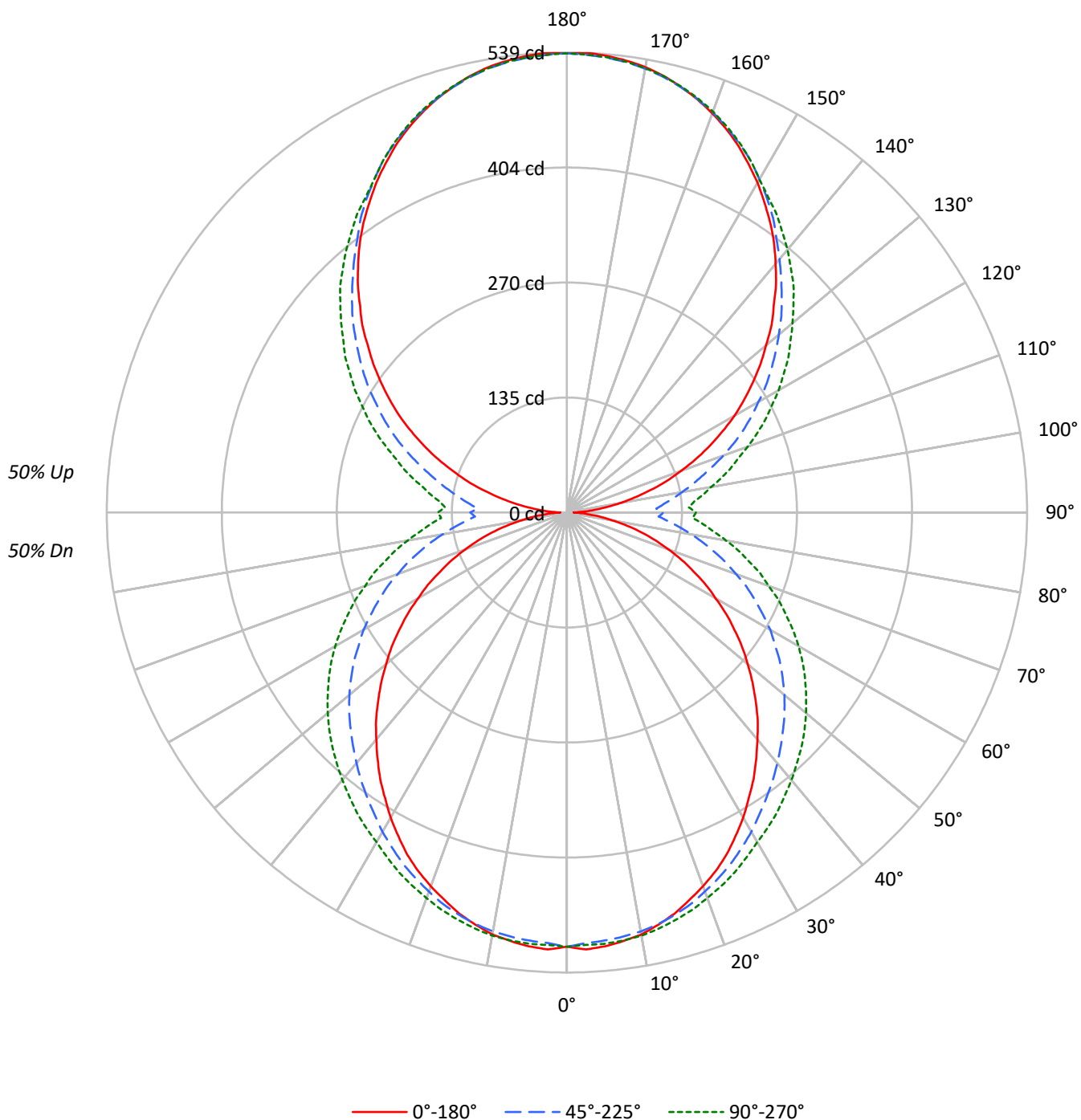
Lumens per Lamp: N/A
Luminaire Lumens: 3447.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	96	91	87	83	88	84	80	77	71	68	65		59	57	55		47	46	44	39
2	87	79	72	66	80	73	67	62	61	57	53		51	47	44		41	38	36	32
3	79	69	61	55	72	64	57	51	53	48	44		44	40	37		36	33	30	26
4	72	61	52	46	66	56	49	43	47	41	37		39	35	31		32	28	26	22
5	66	54	45	39	60	50	42	36	42	36	32		35	30	27		28	25	22	19
6	61	48	40	34	56	45	37	31	38	32	27		31	27	23		26	22	19	16
7	56	43	35	29	51	40	33	27	34	28	24		29	24	20		23	20	17	14
8	52	39	31	26	48	36	29	24	31	25	21		26	21	18		21	18	15	13
9	48	36	28	23	44	33	26	21	28	23	19		24	19	16		20	16	14	11
10	45	33	25	20	41	30	24	19	26	21	17		22	18	15		18	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.4
10°-20°	138.3	4.0
20°-30°	209.6	6.1
30°-40°	255.2	7.4
40°-50°	274.6	8.0
50°-60°	266.6	7.7
60°-70°	232.9	6.8
70°-80°	179.2	5.2
80°-90°	121.6	3.5
90°-100°	116.1	3.4
100°-110°	166.3	4.8
110°-120°	221.0	6.4
120°-130°	260.4	7.6
130°-140°	276.6	8.0
140°-150°	263.7	7.7
150°-160°	219.9	6.4
160°-170°	145.8	4.2
170°-180°	51.0	1.5
0°-30°	396.1	11.5
0°-40°	651.3	18.9
0°-60°	1192.5	34.6
0°-90°	1726.2	50.1
90°-120°	503.4	14.6
90°-150°	1304.1	37.8
90°-180°	1721.0	49.9
0°-180°	3447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	8	56	113	142	151	7
95°	30	69	114	142	150	31
105°	101	124	163	190	198	107
115°	184	196	228	249	256	182
125°	266	270	292	311	317	238
135°	343	348	356	371	376	265
145°	415	418	421	426	428	260
155°	474	476	477	480	478	218
165°	516	516	516	519	517	146
175°	537	536	535	538	535	51
180°	538	538	538	538	538	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	7.9	56.0	113.2	141.8	151.1
92.5°	16.6	59.3	104.8	133.9	142.8
95°	29.5	68.7	113.9	141.9	149.8
97.5°	44.7	80.5	125.0	152.3	161.1
100°	62.9	93.7	136.4	163.7	171.3
102.5°	81.1	108.3	149.9	176.8	184.5
105°	101.3	124.1	163.3	190.0	198.1
107.5°	122.2	141.7	178.5	204.1	209.9
110°	141.4	158.9	195.0	218.6	225.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.2	177.7	211.3	233.4	240.7
115°	184.5	195.5	227.7	249.4	256.1
117.5°	205.2	214.7	243.4	264.2	270.2
120°	226.5	233.2	259.0	279.6	286.4
122.5°	246.1	251.3	276.3	294.9	300.7
125°	265.8	269.9	292.1	310.7	316.8
127.5°	285.8	290.0	308.0	324.7	330.0
130°	304.4	309.5	324.1	340.9	345.0
132.5°	325.3	329.0	340.6	355.3	359.8
135°	342.6	347.6	355.9	371.0	375.5
137.5°	362.6	366.7	371.3	384.9	388.2
140°	380.3	383.7	387.5	399.3	401.9
142.5°	398.5	401.9	403.2	412.5	414.4
145°	415.1	418.2	421.0	425.8	427.7
147.5°	430.5	434.6	436.4	438.0	438.4
150°	446.4	449.1	450.9	452.3	450.9
152.5°	460.5	463.2	465.5	467.3	465.5
155°	474.5	475.9	477.3	479.5	478.2
157.5°	486.8	487.7	488.6	491.8	489.5
160°	497.7	498.6	499.1	501.8	500.0
162.5°	507.7	507.7	508.1	511.3	509.1
165°	516.3	515.9	515.9	519.0	516.8
167.5°	524.0	522.7	522.7	525.9	523.6
170°	529.9	528.6	528.1	531.3	528.6
172.5°	534.0	532.7	532.2	535.4	532.7
175°	537.2	535.8	534.9	538.1	535.4
177.5°	539.0	537.7	536.8	539.5	536.8
180°	538.1	538.1	538.1	538.1	538.1

(END OF REPORT)