

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: P1029520

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029520
REPORT IS A COMBINATION OF REPORTS P986124 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

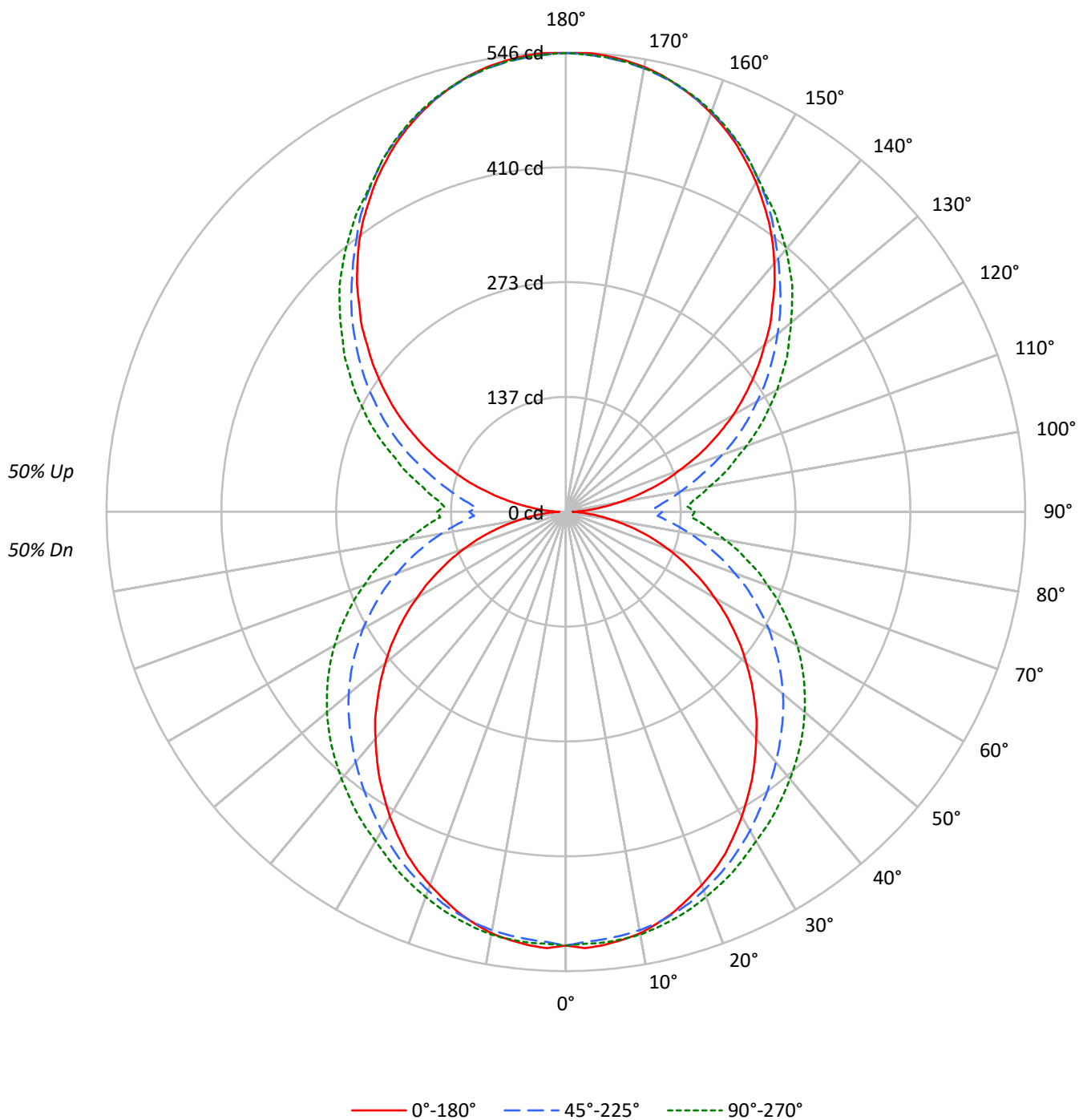
Lumens per Lamp: N/A
Luminaire Lumens: 3493.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.4
10°-20°	140.2	4.0
20°-30°	212.4	6.1
30°-40°	258.6	7.4
40°-50°	278.2	8.0
50°-60°	270.2	7.7
60°-70°	236.0	6.8
70°-80°	181.6	5.2
80°-90°	123.2	3.5
90°-100°	117.6	3.4
100°-110°	168.5	4.8
110°-120°	223.9	6.4
120°-130°	263.8	7.6
130°-140°	280.3	8.0
140°-150°	267.2	7.7
150°-160°	222.8	6.4
160°-170°	147.8	4.2
170°-180°	51.6	1.5
0°-30°	401.4	11.5
0°-40°	660.0	18.9
0°-60°	1208.5	34.6
0°-90°	1749.3	50.1
90°-120°	510.1	14.6
90°-150°	1321.4	37.8
90°-180°	1744.0	49.9
0°-180°	3493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	8	57	115	144	153	7
95°	30	70	115	144	152	31
105°	103	126	166	193	201	109
115°	187	198	231	253	260	185
125°	269	273	296	315	321	241
135°	347	352	361	376	380	269
145°	421	424	426	432	433	263
155°	481	482	484	486	484	221
165°	523	523	523	526	524	148
175°	544	543	542	545	542	52
180°	545	545	545	545	545	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	8.0	56.8	114.7	143.7	153.1
92.5°	16.8	60.1	106.2	135.7	144.7
95°	29.9	69.6	115.3	143.7	151.8
97.5°	45.2	81.6	126.7	154.3	163.3
100°	63.6	95.0	138.2	165.9	173.6
102.5°	82.3	109.6	151.9	179.2	187.0
105°	102.6	125.7	165.5	192.6	200.8
107.5°	123.8	143.6	180.9	206.8	212.7
110°	143.3	161.0	197.6	221.5	228.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.4	180.1	214.0	236.5	243.8
115°	187.1	198.0	230.7	252.6	259.6
117.5°	207.9	217.6	246.7	267.7	273.8
120°	229.5	236.2	262.4	283.3	290.2
122.5°	249.3	254.7	280.0	298.8	304.6
125°	269.3	273.4	296.0	314.8	321.0
127.5°	289.5	293.8	312.2	329.0	334.3
130°	308.4	313.6	328.4	345.5	349.5
132.5°	329.6	333.4	345.1	359.9	364.6
135°	347.2	352.2	360.7	375.9	380.5
137.5°	367.4	371.6	376.3	390.0	393.4
140°	385.4	388.8	392.6	404.5	407.2
142.5°	403.8	407.2	408.6	418.1	419.9
145°	420.6	423.8	426.5	431.5	433.4
147.5°	436.2	440.4	442.2	443.8	444.3
150°	452.3	455.1	456.9	458.3	456.9
152.5°	466.6	469.3	471.6	473.5	471.6
155°	480.8	482.2	483.6	485.9	484.5
157.5°	493.3	494.2	495.1	498.3	496.0
160°	504.3	505.2	505.7	508.5	506.6
162.5°	514.4	514.4	514.9	518.1	515.8
165°	523.2	522.7	522.7	525.9	523.6
167.5°	531.0	529.6	529.6	532.8	530.5
170°	537.0	535.6	535.1	538.4	535.6
172.5°	541.1	539.7	539.3	542.5	539.7
175°	544.3	543.0	542.0	545.3	542.5
177.5°	546.2	544.8	543.9	546.6	543.9
180°	545.3	545.3	545.3	545.3	545.3

(END OF REPORT)