

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: P1029525

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029525
REPORT IS A COMBINATION OF REPORTS P986134 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_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

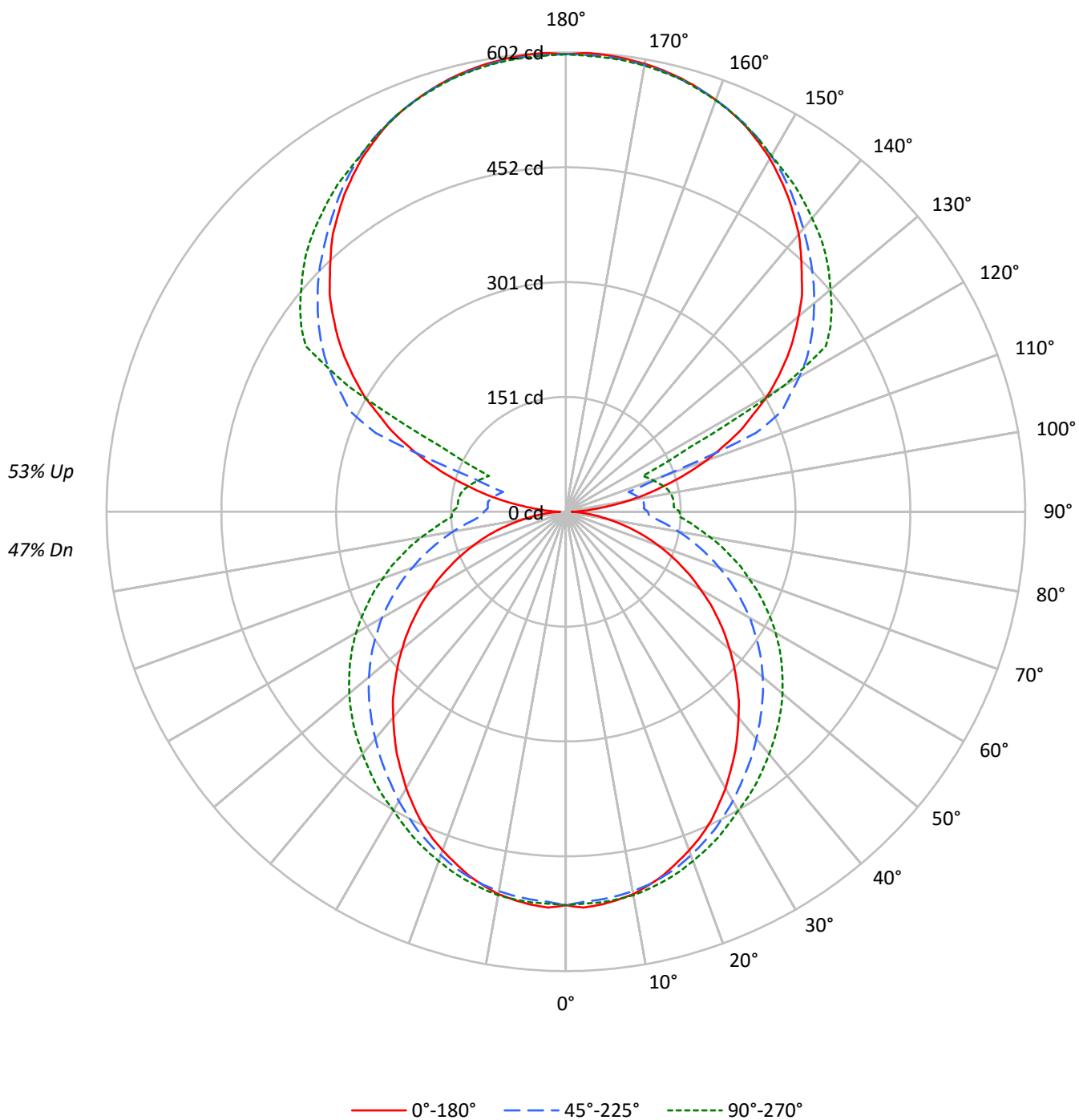
Lumens per Lamp: N/A
Luminaire Lumens: 3726.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	17	21	17	14	17	14	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	1.3
10°-20°	140.2	3.8
20°-30°	212.4	5.7
30°-40°	258.6	6.9
40°-50°	278.2	7.5
50°-60°	270.2	7.3
60°-70°	236.0	6.3
70°-80°	181.6	4.9
80°-90°	122.7	3.3
90°-100°	103.7	2.8
100°-110°	135.0	3.6
110°-120°	235.9	6.3
120°-130°	346.8	9.3
130°-140°	353.9	9.5
140°-150°	321.7	8.6
150°-160°	257.3	6.9
160°-170°	165.8	4.5
170°-180°	57.1	1.5
0°-30°	401.4	10.8
0°-40°	660.0	17.7
0°-60°	1208.5	32.4
0°-90°	1748.8	46.9
90°-120°	474.6	12.7
90°-150°	1496.9	40.2
90°-180°	1977.0	53.1
0°-180°	3726.0	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	56	107	139	149	7
95°	34	55	103	133	142	38
105°	136	170	91	122	132	145
115°	252	268	312	134	111	248
125°	354	360	392	415	423	316
135°	437	444	456	476	481	338
145°	506	506	513	521	522	317
155°	558	554	559	562	558	257
165°	588	585	586	589	586	166
175°	601	598	599	602	598	57
180°	600	600	600	600	600	

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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°	7.9	56.0	107.3	139.3	149.2
92.5°	17.5	55.4	102.3	132.3	141.7
95°	34.2	55.0	102.8	133.4	142.0
97.5°	56.0	52.6	102.8	131.7	141.2
100°	82.0	50.3	99.4	130.6	139.7
102.5°	109.9	133.7	95.1	126.8	136.3
105°	135.6	170.3	90.8	121.6	131.6
107.5°	166.4	195.3	86.3	116.5	126.4
110°	195.2	219.2	130.4	110.9	121.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.0	242.7	269.7	106.6	116.1
115°	252.5	268.1	312.5	134.0	111.1
117.5°	277.3	292.0	330.7	291.1	184.9
120°	305.9	315.4	353.1	379.3	329.0
122.5°	330.2	338.0	374.2	397.0	404.2
125°	354.3	359.9	392.0	415.3	423.3
127.5°	376.8	382.1	408.8	431.8	439.0
130°	398.1	404.2	424.7	447.5	452.9
132.5°	419.8	424.6	440.7	461.7	467.3
135°	437.2	444.1	455.5	475.6	480.7
137.5°	456.3	461.5	469.6	488.2	492.1
140°	474.9	477.7	484.0	499.8	502.1
142.5°	490.6	492.9	498.5	511.0	512.5
145°	506.4	505.9	513.3	520.8	522.4
147.5°	520.7	519.4	526.7	529.6	530.2
150°	534.6	531.5	538.5	541.1	538.9
152.5°	546.3	542.8	549.3	551.9	548.9
155°	557.6	553.7	558.9	561.5	558.0
157.5°	566.7	563.2	567.1	570.1	566.7
160°	574.5	571.9	574.5	577.1	574.0
162.5°	581.4	578.8	581.0	584.0	580.1
165°	587.5	584.9	586.2	589.2	586.2
167.5°	592.3	589.7	591.0	594.0	590.1
170°	596.2	593.6	594.4	597.5	593.6
172.5°	598.8	596.2	597.0	600.1	596.2
175°	600.9	597.9	598.8	601.8	597.5
177.5°	601.8	598.8	599.2	602.2	598.3
180°	599.6	599.6	599.6	599.6	599.6

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