

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: P1029524

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029524
REPORT IS A COMBINATION OF REPORTS P986133 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

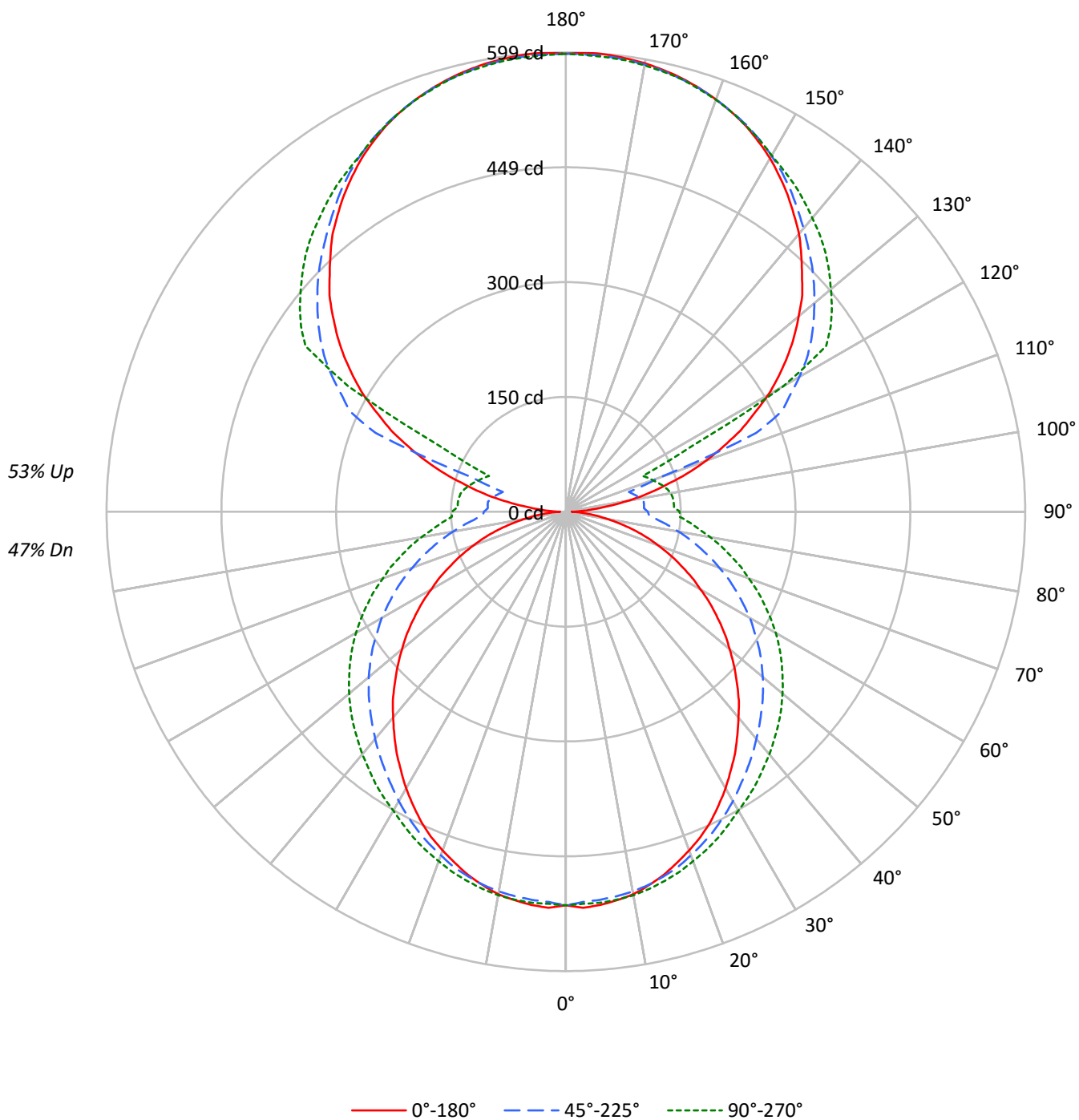
Lumens per Lamp: N/A
Luminaire Lumens: 3710.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
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	16	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.3
10°-20°	139.5	3.8
20°-30°	211.4	5.7
30°-40°	257.4	6.9
40°-50°	277.0	7.5
50°-60°	269.0	7.3
60°-70°	234.9	6.3
70°-80°	180.8	4.9
80°-90°	122.1	3.3
90°-100°	103.2	2.8
100°-110°	134.4	3.6
110°-120°	235.0	6.3
120°-130°	345.4	9.3
130°-140°	352.5	9.5
140°-150°	320.4	8.6
150°-160°	256.3	6.9
160°-170°	165.2	4.5
170°-180°	56.8	1.5
0°-30°	399.6	10.8
0°-40°	657.0	17.7
0°-60°	1202.9	32.4
0°-90°	1740.8	46.9
90°-120°	472.7	12.7
90°-150°	1490.9	40.2
90°-180°	1969.0	53.1
0°-180°	3710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	56	107	139	148	7
95°	34	55	102	133	141	38
105°	135	170	90	121	131	145
115°	252	267	311	134	110	247
125°	353	358	390	414	422	315
135°	436	442	454	474	479	337
145°	504	504	511	519	520	316
155°	555	551	557	559	556	256
165°	585	583	584	587	584	165
175°	599	596	596	599	595	57
180°	597	597	597	597	597	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	7.8	55.8	106.8	138.7	148.5
92.5°	17.5	55.2	101.9	131.7	141.1
95°	34.0	54.7	102.4	132.8	141.3
97.5°	55.8	52.3	102.3	131.1	140.6
100°	81.7	50.0	99.0	130.0	139.1
102.5°	109.5	133.2	94.7	126.2	135.6
105°	135.1	169.6	90.4	121.1	131.0
107.5°	165.8	194.5	86.0	116.0	125.9
110°	194.5	218.3	129.9	110.5	120.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.1	241.8	268.6	106.2	115.7
115°	251.5	267.0	311.2	133.5	110.5
117.5°	276.2	290.8	329.4	289.9	184.2
120°	304.7	314.2	351.8	377.8	327.6
122.5°	328.9	336.6	372.8	395.5	402.6
125°	352.9	358.5	390.5	413.6	421.6
127.5°	375.3	380.6	407.2	430.1	437.2
130°	396.5	402.6	423.1	445.6	451.2
132.5°	418.1	422.9	438.9	459.9	465.4
135°	435.5	442.4	453.8	473.7	478.7
137.5°	454.5	459.7	467.8	486.2	490.1
140°	473.1	475.8	482.1	497.9	500.1
142.5°	488.6	490.9	496.6	508.9	510.5
145°	504.3	503.9	511.3	518.8	520.3
147.5°	518.6	517.3	524.7	527.5	528.1
150°	532.4	529.4	536.3	538.9	536.8
152.5°	544.1	540.6	547.1	549.7	546.7
155°	555.3	551.4	556.6	559.2	555.8
157.5°	564.4	561.0	564.8	567.9	564.4
160°	572.2	569.6	572.2	574.8	571.8
162.5°	579.1	576.5	578.7	581.7	577.8
165°	585.2	582.6	583.9	586.9	583.9
167.5°	589.9	587.3	588.6	591.6	587.7
170°	593.8	591.2	592.1	595.1	591.2
172.5°	596.4	593.8	594.7	597.7	593.8
175°	598.6	595.5	596.4	599.4	595.1
177.5°	599.4	596.4	596.8	599.9	596.0
180°	597.3	597.3	597.3	597.3	597.3

(END OF REPORT)