

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: P1029523

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029523
REPORT IS A COMBINATION OF REPORTS P986132 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_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

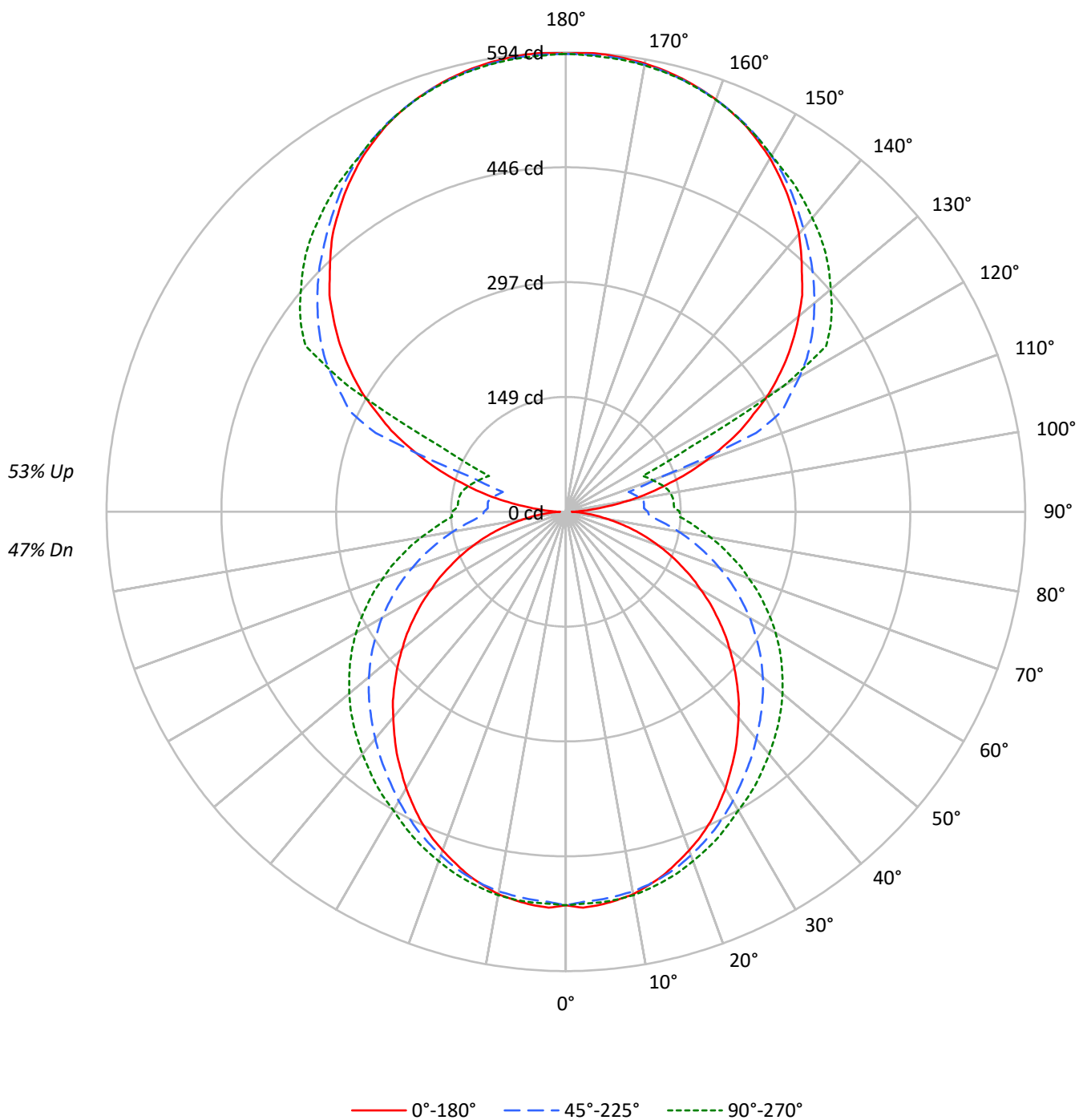
Lumens per Lamp: N/A
Luminaire Lumens: 3678.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	98	98	98	98	82	82	82		67	67	67		53
1	96	91	86	82	88	83	80	76	69	67	64		57	55	53		45
2	87	78	72	66	79	72	66	61	60	56	52		49	46	43		39
3	79	68	61	54	72	63	56	51	52	47	43		43	39	36		34
4	72	60	52	46	65	55	48	42	46	41	36		38	34	30		30
5	66	53	45	39	60	49	42	36	41	35	31		34	29	26		27
6	60	48	39	33	55	44	37	31	37	31	27		30	26	22		24
7	56	43	35	29	51	40	32	27	33	28	23		28	23	20		22
8	52	39	31	26	47	36	29	24	30	25	21		25	21	17		20
9	48	35	28	23	44	33	26	21	28	22	18		23	19	16		19
10	45	32	25	20	41	30	23	19	26	20	16		21	17	14		17

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	1.3
10°-20°	138.3	3.8
20°-30°	209.6	5.7
30°-40°	255.2	6.9
40°-50°	274.6	7.5
50°-60°	266.6	7.2
60°-70°	232.9	6.3
70°-80°	179.2	4.9
80°-90°	121.1	3.3
90°-100°	102.3	2.8
100°-110°	133.3	3.6
110°-120°	233.0	6.3
120°-130°	342.4	9.3
130°-140°	349.4	9.5
140°-150°	317.7	8.6
150°-160°	254.1	6.9
160°-170°	163.8	4.5
170°-180°	56.4	1.5
0°-30°	396.1	10.8
0°-40°	651.3	17.7
0°-60°	1192.5	32.4
0°-90°	1725.7	46.9
90°-120°	468.6	12.7
90°-150°	1478.1	40.2
90°-180°	1952.0	53.1
0°-180°	3678.0	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	55	106	138	147	7
95°	34	54	102	132	140	38
105°	134	168	90	120	130	143
115°	249	265	309	132	110	245
125°	350	355	387	410	418	312
135°	432	439	450	470	475	334
145°	500	500	507	514	516	313
155°	551	547	552	554	551	254
165°	580	578	579	582	579	164
175°	593	590	591	594	590	56
180°	592	592	592	592	592	

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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°	7.8	55.2	105.9	137.5	147.3
92.5°	17.3	54.7	101.0	130.5	139.9
95°	33.8	54.2	101.5	131.7	140.0
97.5°	55.3	51.9	101.5	130.0	139.3
100°	81.0	49.5	98.1	128.9	137.8
102.5°	108.5	132.1	93.9	125.1	134.5
105°	134.0	168.2	89.5	120.0	129.9
107.5°	164.4	192.8	85.2	115.0	124.8
110°	192.7	216.5	128.8	109.5	119.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.1	239.6	266.4	105.2	114.7
115°	249.3	264.8	308.6	132.4	109.6
117.5°	273.8	288.3	326.6	287.4	182.6
120°	302.1	311.6	348.8	374.5	324.8
122.5°	326.1	333.7	369.5	392.0	399.1
125°	349.8	355.4	387.2	410.1	417.9
127.5°	372.1	377.3	403.7	426.4	433.5
130°	393.1	399.2	419.4	441.8	447.3
132.5°	414.5	419.3	435.1	456.0	461.5
135°	431.7	438.6	449.9	469.6	474.7
137.5°	450.6	455.7	463.7	482.0	485.9
140°	469.0	471.7	478.0	493.6	495.9
142.5°	484.4	486.7	492.3	504.5	506.1
145°	500.0	499.6	506.9	514.3	515.8
147.5°	514.2	512.9	520.2	523.0	523.5
150°	527.9	524.9	531.7	534.3	532.2
152.5°	539.4	536.0	542.4	545.0	542.0
155°	550.6	546.7	551.9	554.4	551.0
157.5°	559.6	556.2	560.0	563.0	559.6
160°	567.3	564.7	567.3	569.9	566.9
162.5°	574.1	571.6	573.7	576.7	572.9
165°	580.1	577.6	578.9	581.9	578.9
167.5°	584.9	582.3	583.6	586.6	582.7
170°	588.7	586.1	587.0	590.0	586.1
172.5°	591.3	588.7	589.6	592.6	588.7
175°	593.4	590.4	591.3	594.3	590.0
177.5°	594.3	591.3	591.7	594.7	590.9
180°	592.1	592.1	592.1	592.1	592.1

(END OF REPORT)