

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: P1029535

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029535
REPORT IS A COMBINATION OF REPORTS P986149 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-F_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

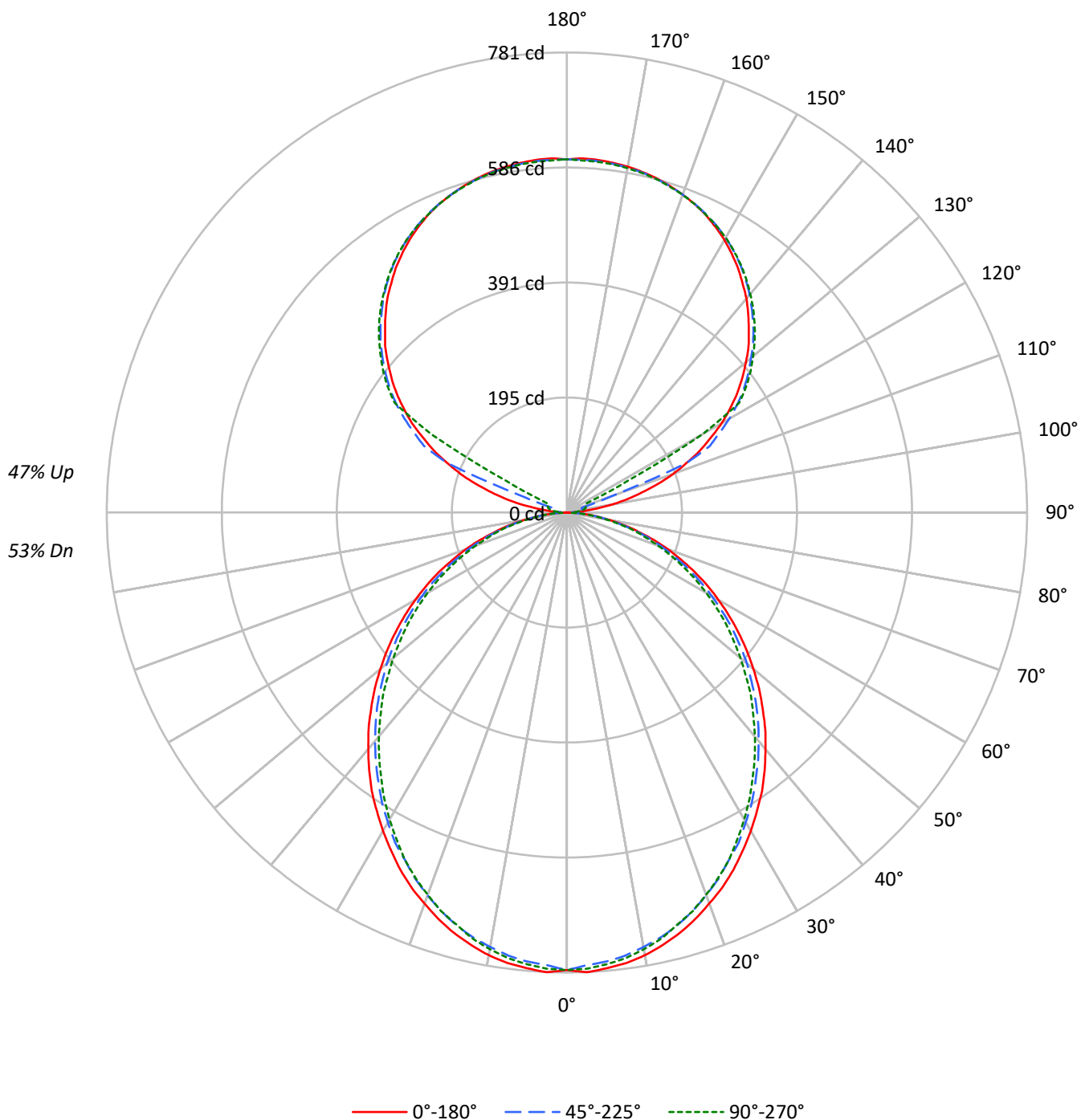
Lumens per Lamp: N/A
Luminaire Lumens: 3735.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	100	100	100	100	85	85	85		71	71	71		59
1	98	94	90	87	91	87	84	81	75	72	70		63	61	59		52
2	90	82	76	71	83	76	71	66	65	61	58		55	52	50		46
3	82	72	65	59	75	67	61	55	58	53	49		49	45	42		41
4	75	64	56	50	69	60	53	47	51	46	41		43	39	36		36
5	69	57	49	43	63	53	46	40	46	40	36		39	35	31		33
6	63	51	43	37	58	48	40	35	41	36	31		35	31	27		30
7	59	46	38	33	54	43	36	31	37	32	28		32	28	24		27
8	54	42	34	29	50	39	32	27	34	29	24		29	25	22		25
9	51	38	31	26	47	36	29	24	31	26	22		27	23	19		23
10	47	35	28	23	44	33	26	22	29	24	20		25	21	18		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12295	12295	12295
5°	12315	11719	11636
10°	12213	11184	10963
15°	12035	10647	10255
20°	11794	10061	9585
25°	11552	9451	8916
30°	11249	8876	8212
35°	10964	8270	7524
40°	10611	7671	6870
45°	10258	7078	6231
50°	9876	6475	5568
55°	9473	5829	4939
60°	9018	5131	4286
65°	8521	4421	3599
70°	7891	3643	2907
75°	7021	2808	2243
80°	5964	1908	1444
85°	4322	887	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	2.0
10°-20°	205.7	5.5
20°-30°	302.3	8.1
30°-40°	351.0	9.4
40°-50°	350.6	9.4
50°-60°	305.7	8.2
60°-70°	226.0	6.1
70°-80°	127.9	3.4
80°-90°	34.8	0.9
90°-100°	19.8	0.5
100°-110°	73.7	2.0
110°-120°	195.5	5.2
120°-130°	324.2	8.7
130°-140°	344.4	9.2
140°-150°	320.1	8.6
150°-160°	257.3	6.9
160°-170°	165.8	4.4
170°-180°	57.1	1.5
0°-30°	581.0	15.6
0°-40°	932.1	25.0
0°-60°	1588.4	42.5
0°-90°	1977.1	52.9
90°-120°	289.0	7.7
90°-150°	1277.7	34.2
90°-180°	1758.0	47.1
0°-180°	3735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	777	774	766	772	770	74
15°	739	735	725	728	724	208
25°	669	663	650	652	650	308
35°	577	570	558	553	550	360
45°	470	464	453	445	442	363
55°	356	351	342	333	329	318
65°	240	235	228	221	217	237
75°	126	124	120	116	117	134
85°	31	30	29	27	26	34
90°	0	5	9	11	12	3
95°	28	14	17	19	19	33
105°	132	145	26	31	33	141
115°	250	257	268	67	36	246
125°	353	358	367	370	371	315
135°	436	443	447	452	451	337
145°	506	506	513	516	514	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°	776.7	776.7	776.7	776.7	776.7
2.5°	781.2	777.4	769.2	776.7	775.2
5°	776.7	773.7	765.5	771.5	770.0
7.5°	771.5	767.0	758.8	764.7	763.2
10°	763.2	758.0	749.0	755.0	752.8
12.5°	752.0	747.6	738.6	742.3	740.8
15°	739.3	734.9	725.2	728.1	724.4
17.5°	723.7	719.2	709.5	713.2	709.5
20°	706.5	702.0	691.5	693.8	690.8
22.5°	689.3	682.6	672.9	672.9	671.4
25°	669.1	663.2	650.5	652.0	650.5
27.5°	646.7	641.5	631.8	629.6	625.8
30°	624.3	618.4	607.2	604.9	601.9
32.5°	600.4	596.0	584.0	579.5	576.5
35°	577.3	569.8	557.9	553.4	549.7
37.5°	551.1	544.4	532.5	527.2	523.5
40°	524.3	518.3	506.3	499.6	496.6
42.5°	498.1	492.1	480.2	472.7	468.2
45°	469.7	464.5	453.3	445.1	442.1
47.5°	442.1	436.9	424.9	416.7	412.2
50°	413.0	409.3	398.8	388.3	384.6
52.5°	384.6	379.4	369.7	361.5	356.2
55°	355.5	351.0	342.0	333.1	329.3
57.5°	326.4	322.6	312.9	304.0	301.0
60°	297.2	294.2	283.8	275.6	273.3
62.5°	268.9	263.6	256.2	248.7	245.7
65°	239.7	235.2	227.8	221.1	217.3
67.5°	209.9	206.1	199.4	194.2	191.2
70°	182.2	179.2	172.5	167.3	164.3
72.5°	153.8	150.9	147.1	141.9	139.7
75°	125.5	124.0	120.2	115.8	117.2
77.5°	100.1	97.1	95.6	93.4	91.1
80°	74.7	73.9	72.4	70.2	68.7
82.5°	50.8	50.8	50.0	47.0	47.0
85°	30.6	29.9	29.1	26.9	26.1
87.5°	13.4	11.9	10.5	8.2	7.5
90°	0.4	5.2	8.7	10.8	11.7
92.5°	10.8	9.1	10.4	11.3	11.7
95°	28.2	13.9	16.9	19.1	18.7
97.5°	50.8	15.2	22.1	23.4	23.9
100°	76.8	17.4	24.7	28.2	29.1
102.5°	105.4	104.6	25.6	30.4	31.7
105°	131.9	144.9	26.5	31.2	33.0
107.5°	162.7	173.6	27.3	32.1	33.8
110°	192.2	201.3	75.9	32.5	34.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.0	227.8	220.4	33.4	34.7
115°	249.5	256.9	267.7	66.8	35.6
117.5°	275.1	283.8	291.1	229.1	115.4
120°	303.7	310.2	318.0	323.3	264.7
122.5°	328.0	335.0	343.6	346.2	346.7
125°	352.8	358.4	366.6	369.7	371.0
127.5°	375.3	381.4	387.9	392.2	392.7
130°	396.6	403.5	408.3	413.1	412.6
132.5°	418.3	423.9	428.7	432.6	432.2
135°	436.5	443.4	447.3	451.7	450.8
137.5°	455.6	460.8	465.1	469.5	468.2
140°	474.2	477.7	482.5	486.4	484.2
142.5°	489.9	492.9	498.5	502.0	499.8
145°	506.4	505.9	513.3	516.3	514.2
147.5°	520.7	519.4	526.7	528.9	527.2
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

(END OF REPORT)