

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: P1029550

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029550
REPORT IS A COMBINATION OF REPORTS P986214 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D710UB2750-4F0-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

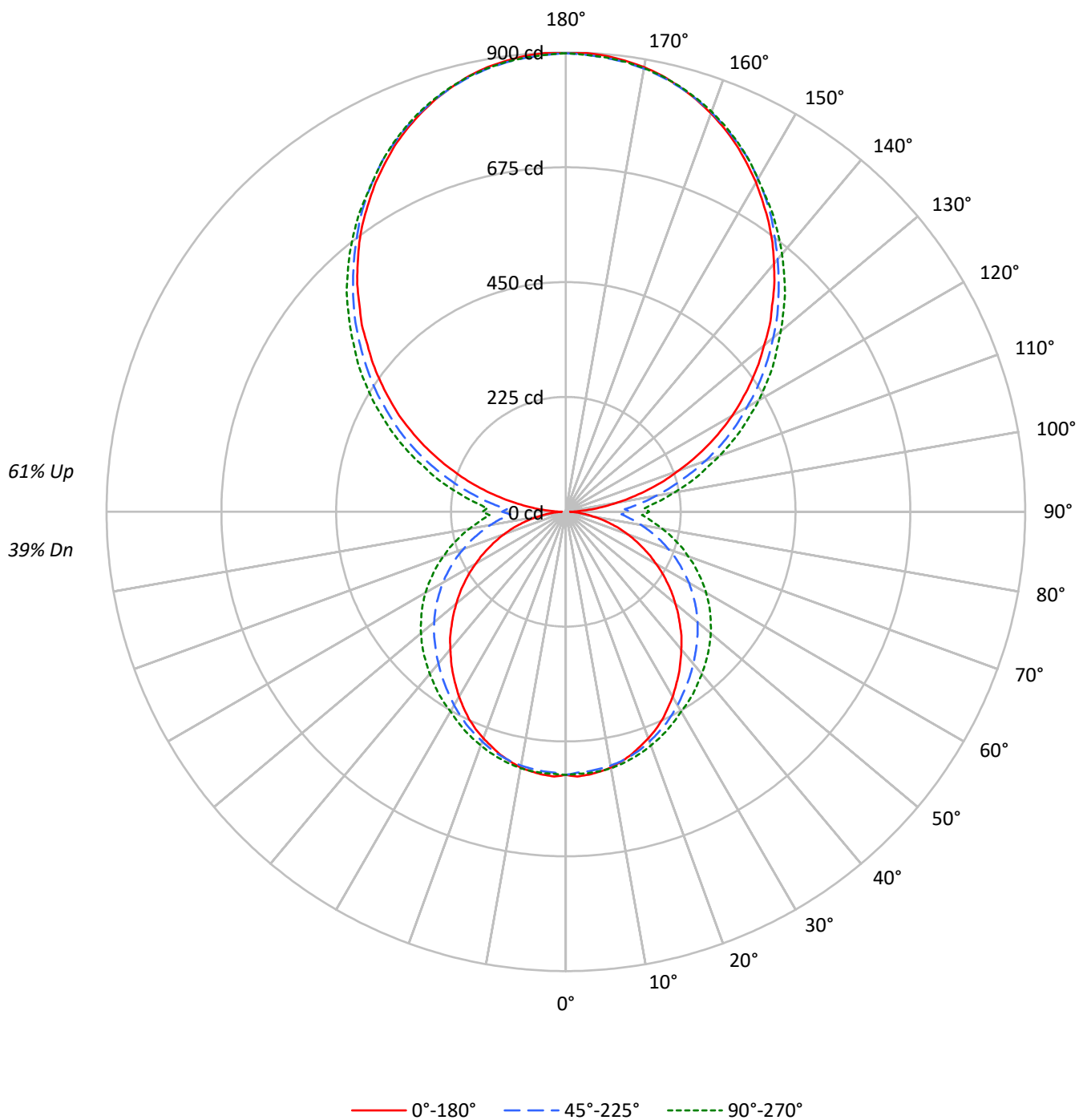
Lumens per Lamp: N/A
Luminaire Lumens: 4481.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 47.2
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	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	94	89	85	81	85	81	78	74	66	63	61	52	50	48	39	38	37			30
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	32	30			25
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25			20
4	71	59	51	45	64	54	47	42	44	39	35	35	31	28	26	23	21			17
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18			15
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16			13
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	15	12			10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	19	16	13	15	12	10			8

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	1.1
10°-20°	140.2	3.1
20°-30°	212.4	4.7
30°-40°	258.6	5.8
40°-50°	278.2	6.2
50°-60°	270.2	6.0
60°-70°	236.0	5.3
70°-80°	181.6	4.1
80°-90°	124.2	2.8
90°-100°	139.5	3.1
100°-110°	238.0	5.3
110°-120°	342.7	7.6
120°-130°	420.1	9.4
130°-140°	455.7	10.2
140°-150°	439.2	9.8
150°-160°	367.1	8.2
160°-170°	243.4	5.4
170°-180°	85.1	1.9
0°-30°	401.4	9.0
0°-40°	660.0	14.7
0°-60°	1208.5	27.0
0°-90°	1750.3	39.1
90°-120°	720.2	16.1
90°-150°	2035.1	45.4
90°-180°	2731.0	60.9
0°-180°	4481.0	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	61	125	154	163	8
95°	45	88	134	163	170	49
105°	167	191	231	259	267	176
115°	306	319	351	373	379	303
125°	443	450	471	489	495	396
135°	572	580	589	604	608	442
145°	693	698	703	708	709	433
155°	792	794	797	800	798	365
165°	862	861	861	866	863	243
175°	897	894	893	898	894	85
180°	898	898	898	898	898	

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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°	8.3	60.7	125.1	153.5	163.3
92.5°	23.4	69.0	115.4	145.3	154.3
95°	45.4	88.1	134.4	162.8	170.3
97.5°	71.2	110.2	156.5	184.1	193.1
100°	101.5	135.2	179.3	207.0	214.5
102.5°	132.6	161.8	205.2	232.8	240.3
105°	166.7	190.7	231.1	258.7	266.9
107.5°	201.6	222.6	259.9	286.0	290.5
110°	234.2	253.7	290.3	314.2	320.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.6	287.0	320.7	342.3	349.0
115°	306.2	319.0	351.1	372.7	378.7
117.5°	341.0	353.1	380.7	400.8	406.1
120°	376.7	385.7	409.6	430.5	436.5
122.5°	409.3	417.7	441.5	459.4	464.6
125°	442.7	449.5	471.1	489.1	495.0
127.5°	476.0	483.6	500.7	516.4	520.8
130°	507.1	516.2	530.4	546.8	549.7
132.5°	542.0	548.8	560.8	574.1	577.9
135°	571.5	579.8	588.9	603.8	607.5
137.5°	604.9	611.7	617.0	630.4	632.6
140°	634.4	640.6	645.8	657.7	659.2
142.5°	664.8	670.9	673.1	682.9	683.6
145°	692.9	698.2	702.7	708.0	708.6
147.5°	718.6	725.5	728.5	730.7	730.0
150°	745.2	749.7	752.7	755.0	752.7
152.5°	768.7	773.2	777.0	780.0	777.0
155°	792.2	794.4	796.7	800.5	798.2
157.5°	812.6	814.1	815.7	821.0	817.2
160°	830.8	832.3	833.1	837.6	834.6
162.5°	847.5	847.5	848.3	853.6	849.8
165°	861.9	861.1	861.1	866.5	862.7
167.5°	874.8	872.5	872.5	877.8	874.0
170°	884.6	882.4	881.6	886.9	882.4
172.5°	891.5	889.2	888.4	893.7	889.2
175°	896.8	894.5	893.0	898.3	893.7
177.5°	899.8	897.5	896.0	900.6	896.0
180°	898.3	898.3	898.3	898.3	898.3

(END OF REPORT)