

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: P1029553

Luminaire Tested: S122DIW-B485D710UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029553
REPORT IS A COMBINATION OF REPORTS P986222 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-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

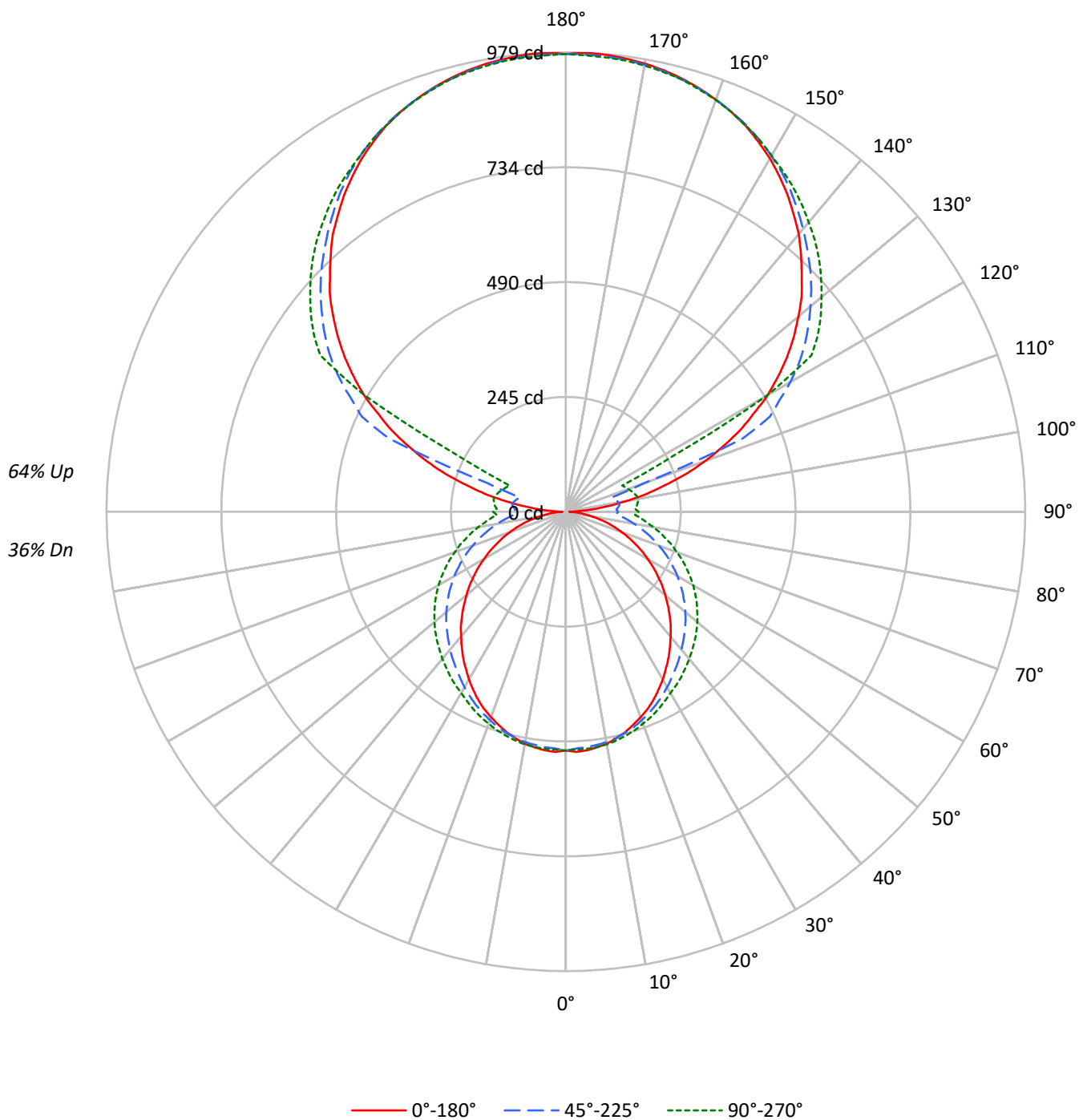
Lumens per Lamp: N/A
Luminaire Lumens: 4803.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43			36
1	94	89	85	81	84	80	77	74	64	62	60	50	48	47	36	35	34			28
2	85	77	71	65	76	70	64	59	56	52	48	43	40	38	31	30	28			23
3	77	67	60	54	69	61	54	49	49	44	40	38	34	32	27	25	23			19
4	70	59	51	45	63	54	47	41	43	38	34	33	30	27	24	22	20			16
5	64	52	44	38	58	48	40	35	38	33	29	30	26	23	22	19	17			13
6	59	47	39	33	53	43	35	30	34	29	25	27	23	20	20	17	15			12
7	54	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13			10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12			9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10			8
10	44	32	24	20	39	29	23	18	24	19	15	19	15	12	14	11	9			7

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	1.0
10°-20°	138.3	2.9
20°-30°	209.6	4.4
30°-40°	255.2	5.3
40°-50°	274.6	5.7
50°-60°	266.6	5.6
60°-70°	232.9	4.8
70°-80°	179.2	3.7
80°-90°	121.7	2.5
90°-100°	115.0	2.4
100°-110°	180.4	3.8
110°-120°	358.0	7.5
120°-130°	549.8	11.4
130°-140°	569.7	11.9
140°-150°	522.4	10.9
150°-160°	418.7	8.7
160°-170°	269.8	5.6
170°-180°	92.9	1.9
0°-30°	396.1	8.2
0°-40°	651.3	13.6
0°-60°	1192.5	24.8
0°-90°	1726.3	35.9
90°-120°	653.4	13.6
90°-150°	2295.3	47.8
90°-180°	3077.0	64.1
0°-180°	4803.0	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	59	111	144	155	8
95°	52	63	112	144	152	59
105°	218	261	106	140	151	234
115°	409	429	480	175	132	402
125°	576	585	622	646	655	513
135°	711	722	736	758	763	549
145°	824	823	835	844	845	515
155°	907	901	909	914	908	418
165°	956	952	954	959	954	270
175°	978	973	974	979	972	93
180°	976	976	976	976	976	

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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°	8.1	58.6	111.4	144.4	154.8
92.5°	24.2	60.5	107.6	137.8	147.4
95°	51.8	63.1	112.3	143.9	152.0
97.5°	87.8	61.6	115.6	145.0	154.5
100°	130.2	60.6	113.9	146.9	156.4
102.5°	176.0	198.9	110.3	144.5	154.7
105°	218.3	260.9	106.5	140.0	151.0
107.5°	268.4	303.8	102.7	135.5	146.5
110°	315.6	345.3	177.3	130.3	141.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	360.8	385.3	407.3	126.6	136.9
115°	408.8	429.0	479.8	175.1	132.4
117.5°	449.8	469.8	512.8	434.0	256.4
120°	496.4	510.0	552.2	581.3	494.0
122.5°	535.9	547.9	589.3	613.5	620.9
125°	575.5	584.6	621.6	646.5	655.2
127.5°	612.2	621.3	651.7	677.3	684.6
130°	646.8	657.3	680.5	706.0	711.2
132.5°	682.1	690.4	709.3	732.7	737.9
135°	710.9	722.2	736.0	758.5	763.0
137.5°	742.0	750.4	761.2	782.3	785.3
140°	772.3	777.3	786.5	804.7	805.6
142.5°	797.7	802.0	811.2	825.6	825.8
145°	823.9	823.2	835.2	844.5	844.7
147.5°	847.2	845.1	857.1	861.3	860.7
150°	869.8	864.8	876.1	880.4	876.8
152.5°	888.8	883.2	893.8	898.0	893.1
155°	907.2	900.8	909.3	913.5	907.9
157.5°	922.0	916.4	922.7	927.7	922.0
160°	934.7	930.5	934.7	938.9	934.0
162.5°	946.0	941.8	945.3	950.2	943.9
165°	955.9	951.7	953.8	958.7	953.8
167.5°	963.7	959.4	961.5	966.5	960.1
170°	970.0	965.8	967.2	972.1	965.8
172.5°	974.2	970.0	971.4	976.4	970.0
175°	977.8	972.8	974.2	979.2	972.1
177.5°	979.2	974.2	975.0	979.9	973.5
180°	975.7	975.7	975.7	975.7	975.7

(END OF REPORT)