

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: P1029406

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029406
REPORT IS A COMBINATION OF REPORTS P985772 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D710UB2750-4F0-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

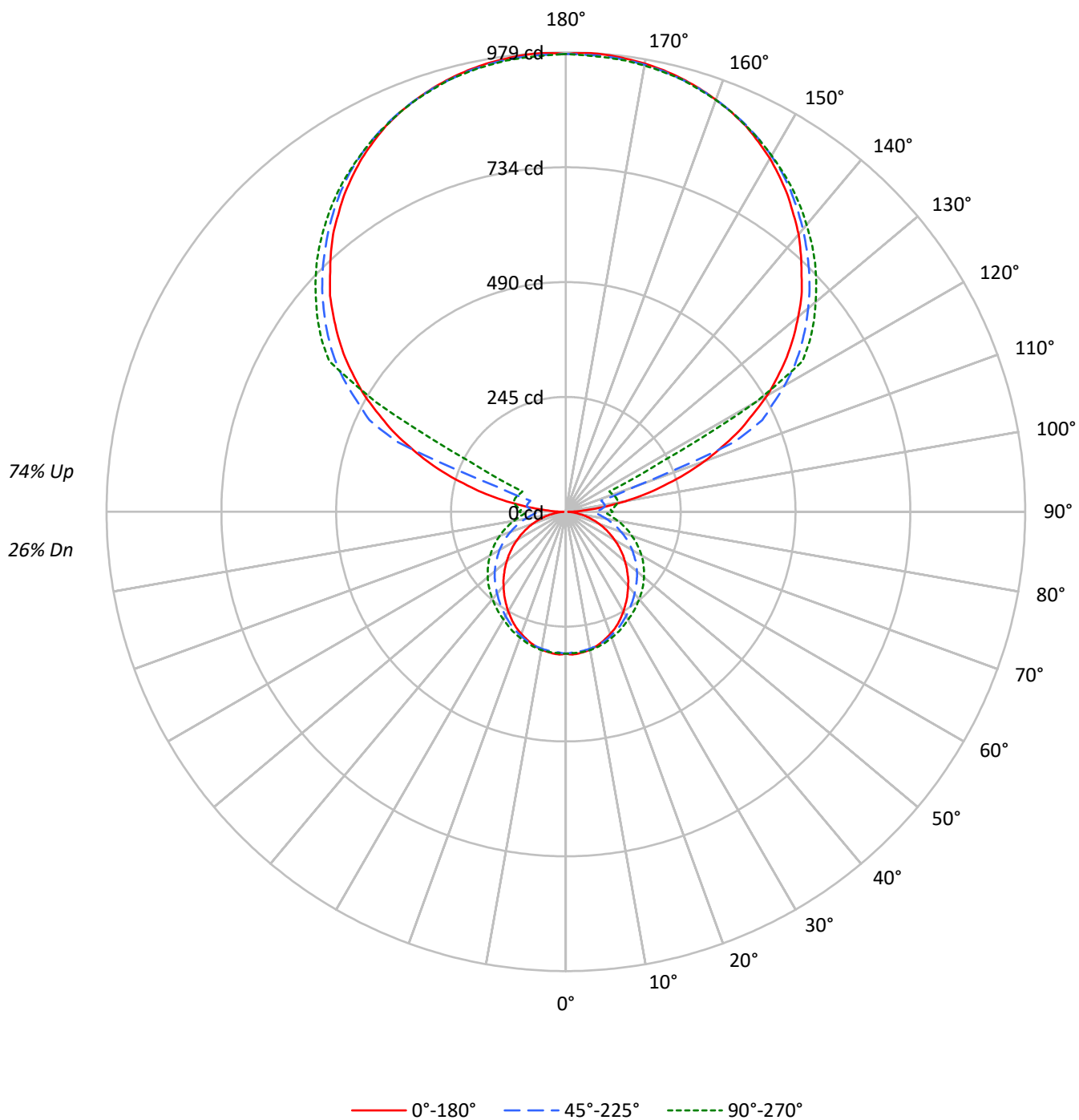
Lumens per Lamp: N/A
Luminaire Lumens: 4016.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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

TEST NUMBER: P1029406

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-D_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1029406

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-D_2700K

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34			26
1	92	87	83	79	81	78	74	71	60	58	55	44	42	41	28	28	27			20
2	83	76	69	64	74	67	62	58	52	48	45	38	35	33	25	23	22			16
3	75	66	59	53	67	59	53	48	45	41	38	33	30	28	22	20	18			13
4	69	58	50	44	61	52	45	40	40	35	32	29	26	24	19	17	16			11
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	13			10
6	58	46	38	32	51	41	34	29	32	27	23	23	20	17	15	13	12			8
7	53	41	34	28	47	37	30	25	29	24	20	21	18	15	14	12	10			7
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	13	11	9			6
9	46	34	27	22	41	30	24	20	24	19	16	18	14	12	12	10	8			6
10	43	31	24	19	38	28	22	17	22	17	14	16	13	11	11	9	7			5

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

TEST NUMBER: P1029406

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.7
10°-20°	82.2	2.0
20°-30°	124.6	3.1
30°-40°	151.7	3.8
40°-50°	163.2	4.1
50°-60°	158.5	3.9
60°-70°	138.4	3.4
70°-80°	106.6	2.7
80°-90°	73.1	1.8
90°-100°	81.4	2.0
100°-110°	155.9	3.9
110°-120°	341.8	8.5
120°-130°	540.8	13.5
130°-140°	565.9	14.1
140°-150°	521.8	13.0
150°-160°	418.7	10.4
160°-170°	269.8	6.7
170°-180°	92.9	2.3
0°-30°	235.5	5.9
0°-40°	387.2	9.6
0°-60°	709.0	17.7
0°-90°	1027.1	25.6
90°-120°	579.1	14.4
90°-150°	2207.6	55.0
90°-180°	2989.0	74.4
0°-180°	4016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	38	72	93	100	6
95°	49	47	78	98	103	57
105°	217	251	81	104	112	232
115°	408	424	462	148	102	401
125°	575	584	611	628	634	513
135°	711	722	733	749	751	549
145°	824	823	835	843	841	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	

TEST NUMBER: P1029406

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.1	38.3	72.0	93.0	99.8
92.5°	21.5	42.0	70.8	89.4	95.4
95°	49.4	46.7	77.9	98.2	102.7
97.5°	85.7	46.6	83.3	101.7	107.6
100°	128.1	47.5	84.0	105.9	112.2
102.5°	174.2	187.2	82.5	105.9	112.9
105°	216.8	250.7	80.8	103.8	111.6
107.5°	266.9	295.1	79.1	101.7	109.5
110°	314.5	338.1	155.5	98.9	106.6

TEST NUMBER: P1029406

CATALOG NUMBER: S122DIW-B290D710UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.7	379.4	387.5	97.4	104.3
115°	407.7	424.5	461.9	148.1	102.2
117.5°	448.9	466.5	496.9	409.2	228.6
120°	495.5	507.9	538.1	558.9	468.3
122.5°	535.0	546.8	577.1	593.2	597.9
125°	574.9	584.0	611.4	628.2	634.3
127.5°	611.6	621.0	643.4	661.4	666.1
130°	646.2	657.0	673.9	692.3	695.1
132.5°	681.5	690.1	704.5	721.0	723.8
135°	710.6	721.9	732.7	748.9	751.0
137.5°	741.7	750.1	759.4	774.9	775.7
140°	772.0	777.3	785.9	799.3	798.4
142.5°	797.4	802.0	811.2	822.1	820.8
145°	823.9	823.2	835.2	842.7	841.4
147.5°	847.2	845.1	857.1	861.0	859.6
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)