

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: P1029416

Luminaire Tested: S122DIW-B290D710UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029416
REPORT IS A COMBINATION OF REPORTS P985787 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-F_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

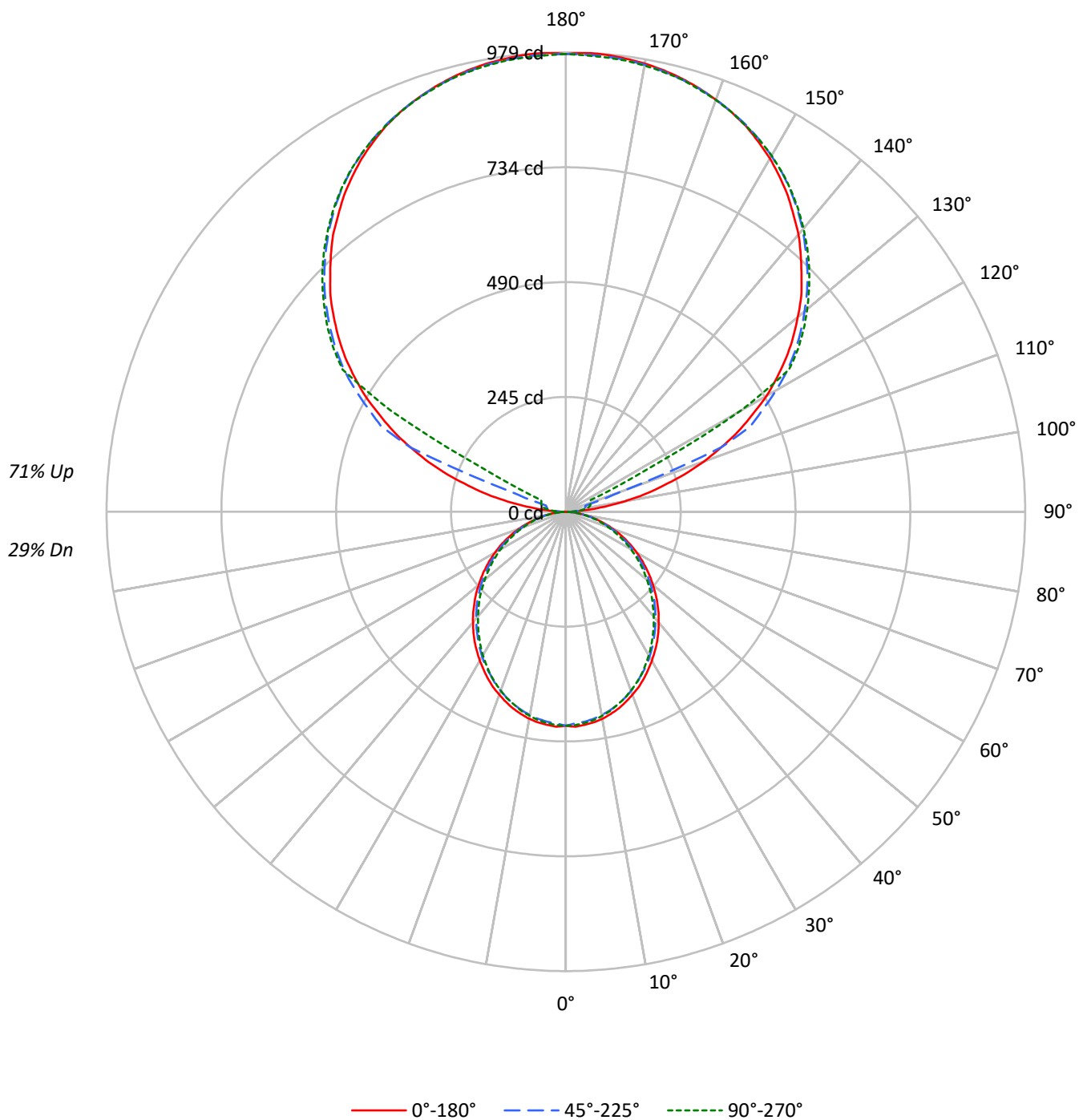
Lumens per Lamp: N/A
Luminaire Lumens: 4022.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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
RCR																	
0	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	32	31
2	85	78	72	67	76	70	65	60	55	51	48	41	39	37	29	27	26
3	77	68	61	55	69	61	55	50	48	44	41	36	34	31	25	24	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19
5	65	53	46	40	58	48	41	36	38	33	30	29	26	23	20	18	17
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	15
7	55	43	35	30	49	39	32	27	31	26	23	24	20	18	17	15	13
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	15	13	12
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7217	7217	7217
5°	7228	6880	6831
10°	7171	6566	6435
15°	7065	6250	6021
20°	6923	5907	5626
25°	6781	5548	5234
30°	6604	5210	4822
35°	6436	4855	4417
40°	6230	4503	4033
45°	6023	4155	3658
50°	5797	3801	3269
55°	5561	3422	2899
60°	5295	3012	2517
65°	5002	2595	2113
70°	4634	2139	1707
75°	4123	1649	1317
80°	3497	1120	847
85°	2543	521	360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.1
10°-20°	120.7	3.0
20°-30°	177.4	4.4
30°-40°	206.1	5.1
40°-50°	205.8	5.1
50°-60°	179.5	4.5
60°-70°	132.7	3.3
70°-80°	75.1	1.9
80°-90°	21.5	0.5
90°-100°	32.2	0.8
100°-110°	119.9	3.0
110°-120°	318.1	7.9
120°-130°	527.5	13.1
130°-140°	560.4	13.9
140°-150°	520.8	12.9
150°-160°	418.7	10.4
160°-170°	269.8	6.7
170°-180°	92.9	2.3
0°-30°	341.1	8.5
0°-40°	547.2	13.6
0°-60°	932.5	23.2
0°-90°	1161.7	28.9
90°-120°	470.2	11.7
90°-150°	2078.9	51.7
90°-180°	2860.0	71.1
0°-180°	4022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	449	453	452	43
15°	434	431	426	427	425	122
25°	393	389	382	383	382	181
35°	339	334	328	325	323	212
45°	276	273	266	261	260	213
55°	209	206	201	196	193	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	1	8	14	18	19	4
95°	46	23	28	31	30	54
105°	215	236	43	51	54	229
115°	406	418	436	109	58	400
125°	574	583	596	602	604	512
135°	710	722	728	735	734	549
145°	824	823	835	840	837	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°	455.9	455.9	455.9	455.9	455.9
2.5°	458.6	456.4	451.6	455.9	455.1
5°	455.9	454.2	449.4	452.9	452.0
7.5°	452.9	450.2	445.4	448.9	448.1
10°	448.1	445.0	439.7	443.2	441.9
12.5°	441.5	438.8	433.6	435.8	434.9
15°	434.0	431.4	425.7	427.4	425.3
17.5°	424.8	422.2	416.5	418.7	416.5
20°	414.7	412.1	406.0	407.3	405.5
22.5°	404.7	400.7	395.0	395.0	394.1
25°	392.8	389.3	381.9	382.7	381.9
27.5°	379.7	376.6	370.9	369.6	367.4
30°	366.5	363.0	356.4	355.1	353.4
32.5°	352.5	349.9	342.8	340.2	338.5
35°	338.9	334.5	327.5	324.9	322.7
37.5°	323.5	319.6	312.6	309.5	307.3
40°	307.8	304.3	297.2	293.3	291.5
42.5°	292.4	288.9	281.9	277.5	274.9
45°	275.8	272.7	266.1	261.3	259.5
47.5°	259.5	256.5	249.5	244.6	242.0
50°	242.4	240.2	234.1	228.0	225.8
52.5°	225.8	222.7	217.0	212.2	209.1
55°	208.7	206.1	200.8	195.5	193.3
57.5°	191.6	189.4	183.7	178.4	176.7
60°	174.5	172.7	166.6	161.8	160.5
62.5°	157.8	154.8	150.4	146.0	144.2
65°	140.7	138.1	133.7	129.8	127.6
67.5°	123.2	121.0	117.1	114.0	112.2
70°	107.0	105.2	101.3	98.2	96.5
72.5°	90.3	88.6	86.4	83.3	82.0
75°	73.7	72.8	70.6	68.0	68.8
77.5°	58.7	57.0	56.1	54.8	53.5
80°	43.8	43.4	42.5	41.2	40.3
82.5°	29.8	29.8	29.4	27.6	27.6
85°	18.0	17.5	17.1	15.8	15.3
87.5°	7.9	7.0	6.1	4.8	4.4
90°	0.7	8.5	14.1	17.6	19.1
92.5°	17.6	14.8	16.9	18.4	19.1
95°	45.9	22.6	27.5	31.1	30.4
97.5°	82.6	24.7	36.0	38.1	38.8
100°	125.0	28.2	40.2	45.9	47.3
102.5°	171.6	170.1	41.7	49.4	51.5
105°	214.6	235.8	43.1	50.8	53.7
107.5°	264.7	282.4	44.5	52.2	55.1
110°	312.7	327.6	123.5	52.9	55.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	370.6	358.6	54.4	56.5
115°	405.9	417.9	435.6	108.7	57.9
117.5°	447.6	461.7	473.7	372.8	187.8
120°	494.2	504.8	517.5	526.0	430.6
122.5°	533.7	545.0	559.1	563.4	564.1
125°	574.0	583.1	596.5	601.5	603.6
127.5°	610.7	620.6	631.1	638.2	638.9
130°	645.3	656.6	664.3	672.1	671.4
132.5°	680.6	689.7	697.5	703.9	703.2
135°	710.2	721.5	727.9	734.9	733.5
137.5°	741.3	749.7	756.8	763.9	761.7
140°	771.6	777.3	785.0	791.4	787.9
142.5°	797.0	802.0	811.2	816.8	813.3
145°	823.9	823.2	835.2	840.1	836.6
147.5°	847.2	845.1	857.1	860.6	857.8
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)