

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: P1029266

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029266
REPORT IS A COMBINATION OF REPORTS P985329 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_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

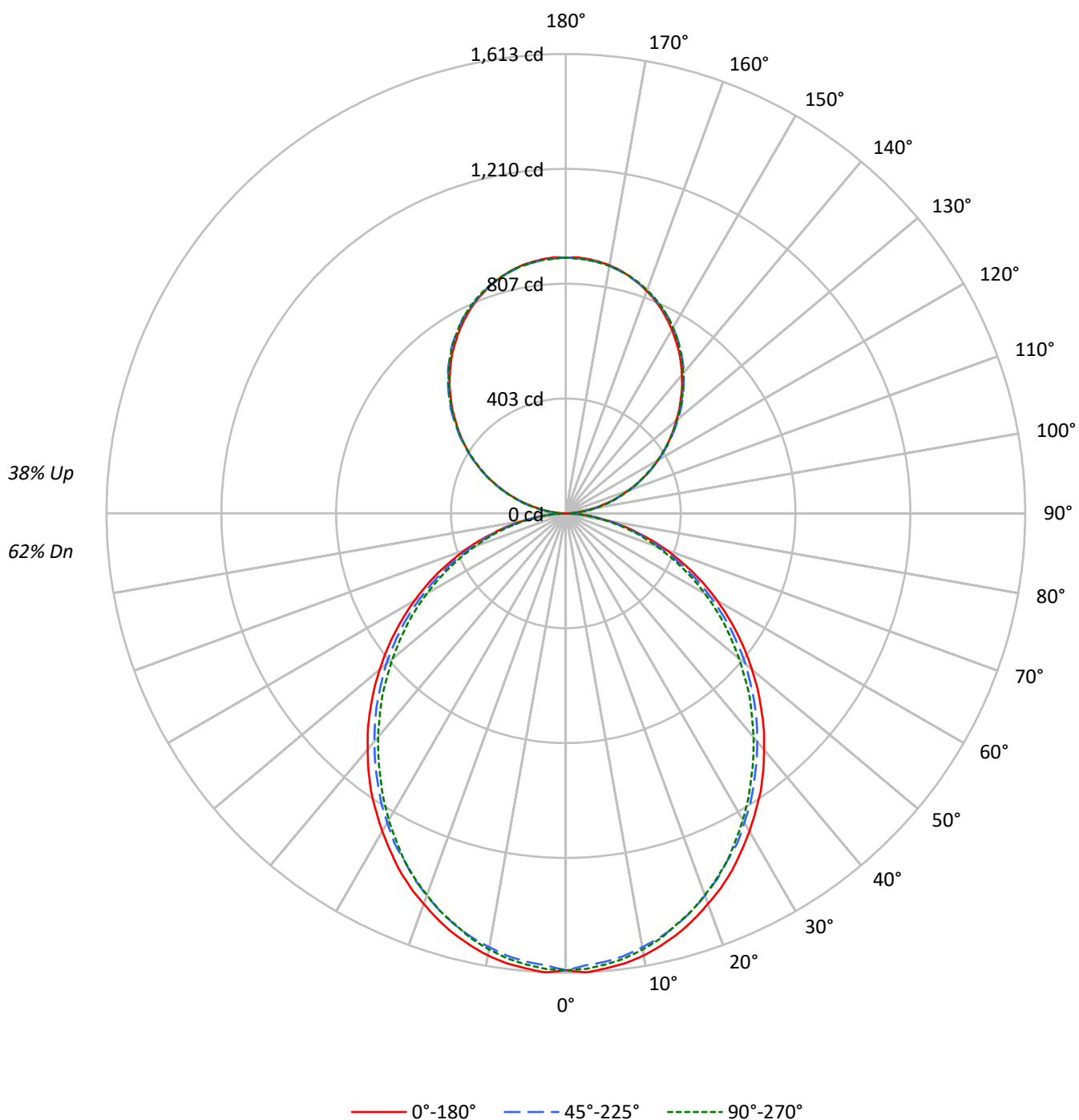
Lumens per Lamp: N/A
Luminaire Lumens: 6595.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90		78	78	78		67	67	67	62
1	100	96	92	89	94	90	87	84	79	76	74		69	67	65		59	58	57	52
2	91	84	78	72	85	79	73	69	69	65	61		60	57	54		52	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52		53	49	46		46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44		48	43	39		41	38	35	32
5	70	58	50	44	66	55	48	42	49	43	38		43	38	34		37	34	31	28
6	65	52	44	38	60	49	42	37	44	38	33		39	34	30		34	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29		35	30	27		31	27	24	22
8	56	43	35	30	52	41	34	29	36	30	26		32	27	24		28	24	22	19
9	52	39	32	27	49	37	30	26	33	28	24		30	25	21		26	22	19	17
10	49	36	29	24	46	34	28	23	31	25	21		28	23	19		24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25392	25392	25392
5°	25433	24202	24031
10°	25225	23099	22641
15°	24856	21987	21179
20°	24357	20779	19795
25°	23859	19517	18413
30°	23232	18330	16963
35°	22644	17079	15537
40°	21913	15843	14190
45°	21189	14619	12870
50°	20396	13372	11499
55°	19564	12039	10202
60°	18629	10597	8852
65°	17601	9129	7433
70°	16296	7525	6002
75°	14494	5800	4636
80°	12311	3942	2983
85°	8927	1836	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	2.3
10°-20°	424.8	6.4
20°-30°	624.2	9.5
30°-40°	725.0	11.0
40°-50°	724.1	11.0
50°-60°	631.4	9.6
60°-70°	466.7	7.1
70°-80°	264.1	4.0
80°-90°	72.3	1.1
90°-100°	55.6	0.8
100°-110°	176.7	2.7
110°-120°	302.3	4.6
120°-130°	397.5	6.0
130°-140°	446.2	6.8
140°-150°	437.6	6.6
150°-160°	367.1	5.6
160°-170°	243.4	3.7
170°-180°	85.1	1.3
0°-30°	1200.0	18.2
0°-40°	1925.0	29.2
0°-60°	3280.5	49.7
0°-90°	4083.5	61.9
90°-120°	534.5	8.1
90°-150°	1815.9	27.5
90°-180°	2511.0	38.1
0°-180°	6595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1581	1593	1590	152
15°	1527	1518	1498	1504	1496	430
25°	1382	1370	1343	1346	1343	636
35°	1192	1177	1152	1143	1135	745
45°	970	959	936	919	913	749
55°	734	725	706	688	680	656
65°	495	486	470	456	449	490
75°	259	256	248	239	242	277
85°	63	62	60	56	54	70
90°	1	10	26	25	26	6
95°	39	47	48	48	47	44
105°	163	165	167	168	168	172
115°	303	308	306	306	303	300
125°	441	448	446	444	443	394
135°	571	579	581	580	578	441
145°	693	698	703	704	700	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°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1613.3	1605.6	1588.6	1604.1	1601.0
5°	1604.1	1597.9	1580.9	1593.3	1590.2
7.5°	1593.3	1584.0	1567.0	1579.4	1576.3
10°	1576.3	1565.5	1547.0	1559.3	1554.7
12.5°	1553.2	1543.9	1525.4	1533.1	1530.0
15°	1526.9	1517.7	1497.6	1503.8	1496.1
17.5°	1494.6	1485.3	1465.3	1473.0	1465.3
20°	1459.1	1449.8	1428.2	1432.9	1426.7
22.5°	1423.6	1409.7	1389.7	1389.7	1386.6
25°	1382.0	1369.6	1343.4	1346.5	1343.4
27.5°	1335.7	1324.9	1304.8	1300.2	1292.5
30°	1289.4	1277.1	1253.9	1249.3	1243.2
32.5°	1240.1	1230.8	1206.1	1196.9	1190.7
35°	1192.3	1176.8	1152.2	1142.9	1135.2
37.5°	1138.3	1124.4	1099.7	1088.9	1081.2
40°	1082.7	1070.4	1045.7	1031.8	1025.7
42.5°	1028.8	1016.4	991.7	976.3	967.1
45°	970.2	959.4	936.2	919.3	913.1
47.5°	913.1	902.3	877.6	860.6	851.4
50°	852.9	845.2	823.6	802.0	794.3
52.5°	794.3	783.5	763.5	746.5	735.7
55°	734.2	724.9	706.4	687.9	680.2
57.5°	674.0	666.3	646.3	627.7	621.6
60°	613.9	607.7	586.1	569.1	564.5
62.5°	555.3	544.5	529.0	513.6	507.4
65°	495.1	485.8	470.4	456.5	448.8
67.5°	433.4	425.7	411.8	401.0	394.8
70°	376.3	370.2	356.3	345.5	339.3
72.5°	317.7	311.6	303.8	293.1	288.4
75°	259.1	256.0	248.3	239.1	242.2
77.5°	206.7	200.5	197.4	192.8	188.2
80°	154.2	152.7	149.6	145.0	141.9
82.5°	104.9	104.9	103.3	97.2	97.2
85°	63.2	61.7	60.2	55.5	54.0
87.5°	27.8	24.7	21.6	17.0	15.4
90°	0.8	9.9	26.5	25.0	25.8
92.5°	16.7	22.7	23.5	24.3	24.3
95°	39.4	47.0	48.5	48.5	47.0
97.5°	66.0	72.8	75.8	75.8	75.8
100°	96.3	102.3	104.6	104.6	103.9
102.5°	128.1	132.7	135.7	136.4	135.7
105°	163.0	165.3	166.8	168.3	168.3
107.5°	197.9	200.9	200.9	201.6	197.9
110°	231.2	235.8	235.8	235.8	233.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.6	272.1	271.4	269.1	267.6
115°	303.2	307.8	306.3	305.5	303.2
117.5°	338.8	344.9	341.1	338.8	336.6
120°	374.5	380.5	374.5	374.5	372.2
122.5°	407.1	414.7	410.9	408.6	407.1
125°	441.2	448.0	445.7	443.5	442.7
127.5°	474.5	482.9	479.8	476.8	474.5
130°	505.6	515.5	514.0	512.4	509.4
132.5°	540.5	548.1	548.8	545.0	542.8
135°	570.8	579.1	580.7	579.9	577.6
137.5°	604.2	611.0	612.5	611.7	608.7
140°	633.7	640.6	644.3	644.3	641.3
142.5°	664.1	670.9	673.1	673.9	670.9
145°	692.9	698.2	702.7	703.5	700.4
147.5°	718.6	725.5	728.5	730.0	727.0
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)