

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: P1029256

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029256
REPORT IS A COMBINATION OF REPORTS P985314 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-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

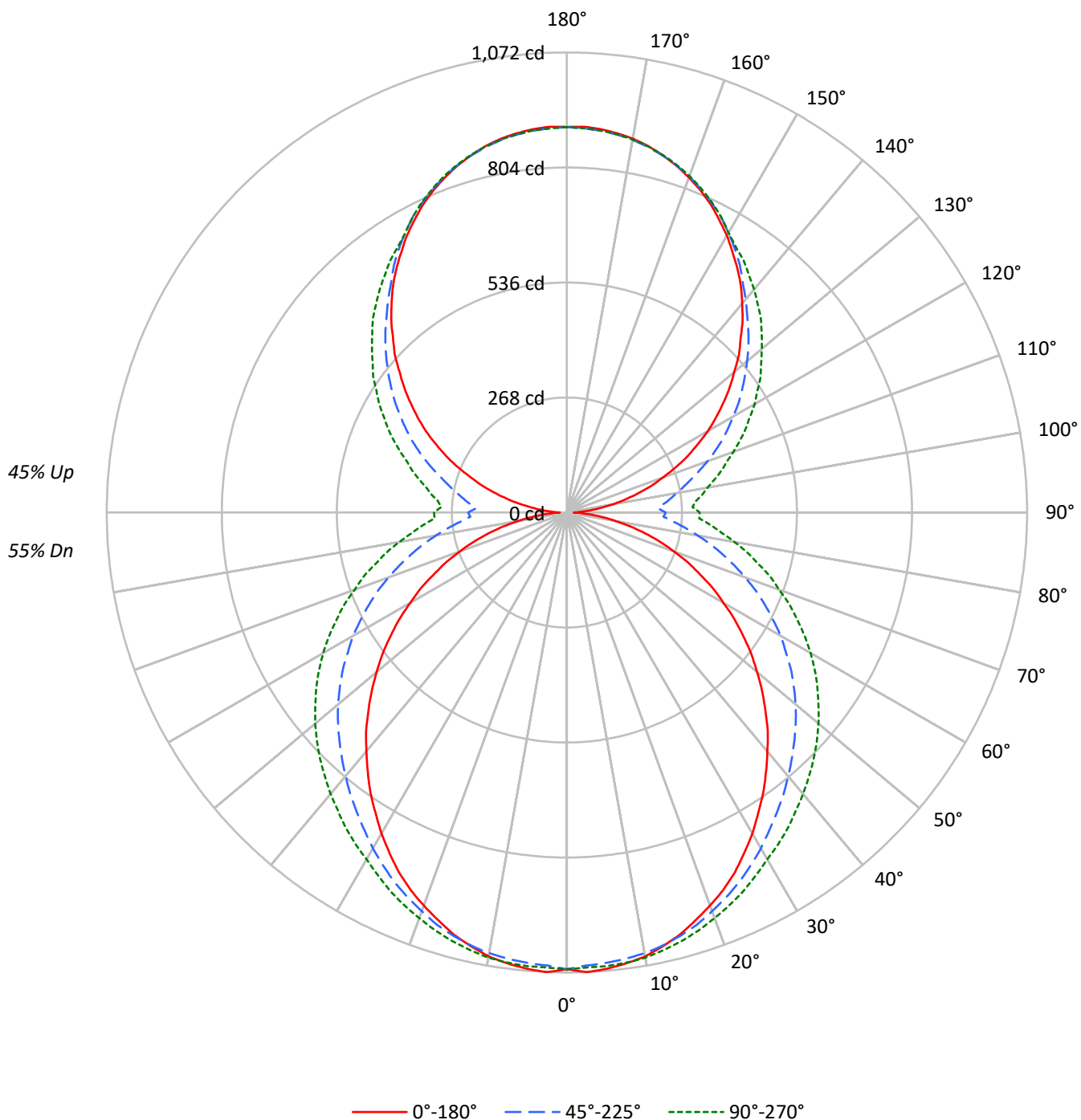
Lumens per Lamp: N/A
Luminaire Lumens: 6575.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	97	92	88	84	90	85	82	78	73	70	67	62	59	57	51	49	48
2	88	80	73	67	81	74	68	63	63	58	54	53	50	47	44	41	39
3	80	69	61	55	73	64	57	52	55	50	45	46	42	39	38	35	33
4	73	61	53	46	67	57	49	43	49	43	38	41	36	33	34	31	28
5	67	54	46	39	61	50	43	37	43	37	32	37	32	28	30	27	24
6	61	48	40	34	56	45	37	32	39	33	28	33	28	24	28	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18
8	52	40	31	26	48	37	30	25	32	26	22	27	23	19	23	19	16
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.5
10°-20°	289.4	4.4
20°-30°	438.5	6.7
30°-40°	533.9	8.1
40°-50°	574.5	8.7
50°-60°	557.9	8.5
60°-70°	487.2	7.4
70°-80°	375.0	5.7
80°-90°	253.7	3.9
90°-100°	228.8	3.5
100°-110°	303.2	4.6
110°-120°	385.8	5.9
120°-130°	444.1	6.8
130°-140°	465.8	7.1
140°-150°	440.9	6.7
150°-160°	367.1	5.6
160°-170°	243.4	3.7
170°-180°	85.1	1.3
0°-30°	828.7	12.6
0°-40°	1362.6	20.7
0°-60°	2495.0	37.9
0°-90°	3610.8	54.9
90°-120°	917.8	14.0
90°-150°	2268.6	34.5
90°-180°	2964.0	45.1
0°-180°	6575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	16	115	230	290	310	13
95°	52	132	226	284	302	54
105°	171	218	300	355	372	181
115°	309	331	399	444	459	306
125°	444	451	498	538	551	398
135°	572	581	598	629	639	443
145°	693	698	703	713	717	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°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	16.2	114.8	230.1	290.3	309.6
92.5°	30.6	118.3	213.2	274.2	292.7
95°	51.7	131.8	225.9	284.5	301.5
97.5°	76.8	149.9	242.4	299.5	318.0
100°	107.1	170.2	258.8	315.9	332.2
102.5°	137.4	192.9	279.1	335.4	351.6
105°	170.7	217.7	299.5	354.9	371.9
107.5°	205.6	245.6	322.8	375.9	389.2
110°	237.4	272.8	348.4	397.8	412.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	273.8	302.9	373.2	420.3	435.7
115°	309.4	330.9	398.8	444.3	459.0
117.5°	343.4	361.9	422.9	466.8	480.0
120°	379.1	391.3	447.0	490.2	504.9
122.5°	411.7	420.9	474.1	513.5	525.9
125°	444.3	451.1	498.1	537.6	550.7
127.5°	477.6	484.4	523.0	558.6	570.1
130°	508.7	517.0	547.9	583.4	592.7
132.5°	543.6	549.6	573.5	605.2	615.3
135°	572.3	580.6	597.7	629.3	639.3
137.5°	605.7	612.5	621.8	650.3	658.1
140°	635.2	640.6	647.4	672.1	678.3
142.5°	665.6	670.9	673.1	692.4	697.1
145°	692.9	698.2	702.7	712.8	717.4
147.5°	718.6	725.5	728.5	731.5	733.2
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)