

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: P1029267

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029267
REPORT IS A COMBINATION OF REPORTS P985330 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

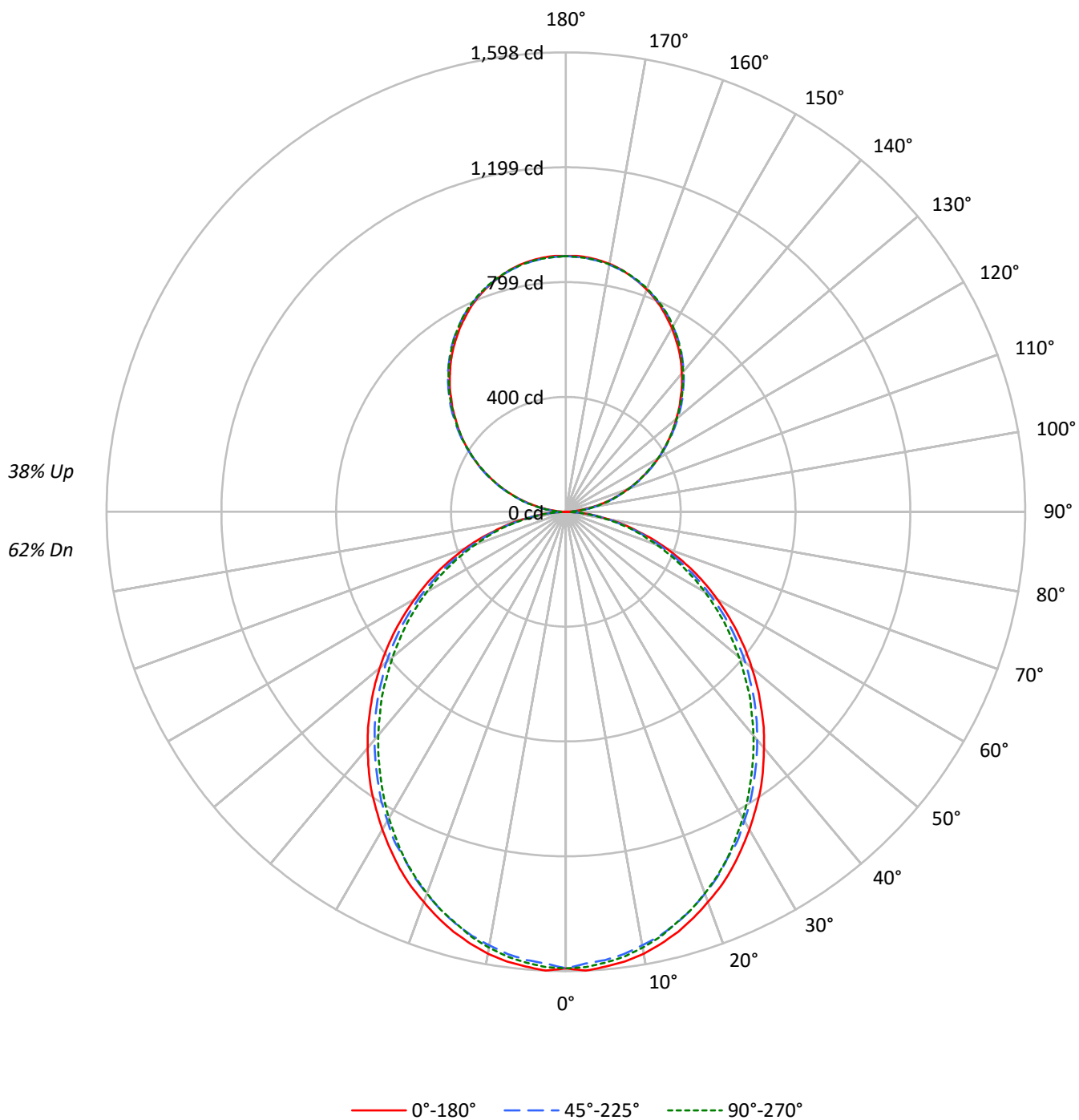
Lumens per Lamp: N/A
Luminaire Lumens: 6530.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25142	25142	25142
5°	25183	23965	23795
10°	24979	22873	22420
15°	24613	21773	20971
20°	24118	20575	19601
25°	23625	19325	18232
30°	23005	18152	16796
35°	22421	16912	15385
40°	21698	15689	14051
45°	20979	14475	12743
50°	20197	13242	11386
55°	19372	11922	10101
60°	18443	10493	8766
65°	17426	9040	7360
70°	16136	7451	5944
75°	14354	5744	4590
80°	12191	3903	2954
85°	8843	1817	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20979 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.3
10°-20°	420.6	6.4
20°-30°	618.1	9.5
30°-40°	717.9	11.0
40°-50°	717.0	11.0
50°-60°	625.2	9.6
60°-70°	462.2	7.1
70°-80°	261.5	4.0
80°-90°	71.5	1.1
90°-100°	55.0	0.8
100°-110°	174.9	2.7
110°-120°	299.3	4.6
120°-130°	393.6	6.0
130°-140°	441.8	6.8
140°-150°	433.2	6.6
150°-160°	363.4	5.6
160°-170°	241.0	3.7
170°-180°	84.2	1.3
0°-30°	1188.2	18.2
0°-40°	1906.1	29.2
0°-60°	3248.3	49.7
0°-90°	4043.5	61.9
90°-120°	529.2	8.1
90°-150°	1797.8	27.5
90°-180°	2486.0	38.1
0°-180°	6530.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1582	1565	1578	1575	151
15°	1512	1503	1483	1489	1481	426
25°	1368	1356	1330	1333	1330	630
35°	1181	1165	1141	1132	1124	737
45°	961	950	927	910	904	741
55°	727	718	700	681	674	650
65°	490	481	466	452	444	485
75°	257	254	246	237	240	274
85°	63	61	60	55	54	70
90°	1	10	26	25	26	6
95°	39	46	48	48	46	44
105°	161	164	165	167	167	170
115°	300	305	303	302	300	297
125°	437	444	441	439	438	390
135°	565	573	575	574	572	437
145°	686	691	696	696	694	429
155°	784	786	789	792	790	361
165°	853	853	853	858	854	241
175°	888	886	884	889	885	84
180°	889	889	889	889	889	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.3	1588.3	1588.3	1588.3	1588.3
2.5°	1597.5	1589.9	1573.1	1588.3	1585.3
5°	1588.3	1582.2	1565.4	1577.7	1574.6
7.5°	1577.7	1568.5	1551.7	1563.9	1560.9
10°	1560.9	1550.2	1531.8	1544.1	1539.5
12.5°	1537.9	1528.8	1510.5	1518.1	1515.0
15°	1512.0	1502.8	1483.0	1489.1	1481.4
17.5°	1479.9	1470.7	1450.9	1458.5	1450.9
20°	1444.8	1435.6	1414.2	1418.8	1412.7
22.5°	1409.7	1395.9	1376.1	1376.1	1373.0
25°	1368.4	1356.2	1330.2	1333.3	1330.2
27.5°	1322.6	1311.9	1292.1	1287.5	1279.8
30°	1276.8	1264.6	1241.7	1237.1	1231.0
32.5°	1227.9	1218.7	1194.3	1185.1	1179.0
35°	1180.6	1165.3	1140.9	1131.7	1124.1
37.5°	1127.1	1113.4	1088.9	1078.2	1070.6
40°	1072.1	1059.9	1035.5	1021.7	1015.6
42.5°	1018.7	1006.5	982.0	966.8	957.6
45°	960.6	950.0	927.0	910.2	904.1
47.5°	904.1	893.4	869.0	852.2	843.0
50°	844.6	836.9	815.6	794.2	786.5
52.5°	786.5	775.8	756.0	739.2	728.5
55°	727.0	717.8	699.5	681.2	673.5
57.5°	667.4	659.8	639.9	621.6	615.5
60°	607.8	601.7	580.4	563.6	559.0
62.5°	549.8	539.1	523.8	508.6	502.5
65°	490.2	481.1	465.8	452.1	444.4
67.5°	429.2	421.5	407.8	397.1	391.0
70°	372.6	366.5	352.8	342.1	336.0
72.5°	314.6	308.5	300.9	290.2	285.6
75°	256.6	253.5	245.9	236.7	239.8
77.5°	204.7	198.5	195.5	190.9	186.3
80°	152.7	151.2	148.1	143.6	140.5
82.5°	103.9	103.9	102.3	96.2	96.2
85°	62.6	61.1	59.6	55.0	53.5
87.5°	27.5	24.4	21.4	16.8	15.3
90°	0.8	9.8	26.3	24.8	25.5
92.5°	16.5	22.5	23.3	24.0	24.0
95°	39.0	46.5	48.0	48.0	46.5
97.5°	65.3	72.0	75.1	75.1	75.1
100°	95.3	101.3	103.6	103.6	102.8
102.5°	126.8	131.3	134.3	135.1	134.3
105°	161.4	163.6	165.1	166.6	166.6
107.5°	195.9	198.9	198.9	199.6	195.9
110°	228.9	233.4	233.4	233.4	231.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.9	269.4	268.7	266.4	264.9
115°	300.2	304.7	303.2	302.5	300.2
117.5°	335.5	341.5	337.7	335.5	333.2
120°	370.8	376.8	370.8	370.8	368.5
122.5°	403.0	410.5	406.8	404.5	403.0
125°	436.8	443.6	441.3	439.0	438.3
127.5°	469.8	478.1	475.1	472.1	469.8
130°	500.6	510.3	508.8	507.3	504.3
132.5°	535.1	542.6	543.4	539.6	537.4
135°	565.1	573.4	574.9	574.1	571.9
137.5°	598.2	604.9	606.4	605.7	602.7
140°	627.4	634.2	637.9	637.9	634.9
142.5°	657.4	664.2	666.5	667.2	664.2
145°	686.0	691.2	695.7	696.5	693.5
147.5°	711.5	718.2	721.2	722.7	719.7
150°	737.8	742.3	745.3	747.5	745.3
152.5°	761.0	765.5	769.3	772.3	769.3
155°	784.3	786.5	788.8	792.5	790.3
157.5°	804.5	806.0	807.5	812.8	809.1
160°	822.6	824.1	824.8	829.3	826.3
162.5°	839.1	839.1	839.8	845.1	841.3
165°	853.3	852.6	852.6	857.8	854.1
167.5°	866.1	863.8	863.8	869.1	865.3
170°	875.8	873.6	872.8	878.1	873.6
172.5°	882.6	880.3	879.6	884.9	880.3
175°	887.9	885.6	884.1	889.4	884.9
177.5°	890.9	888.6	887.1	891.6	887.1
180°	889.4	889.4	889.4	889.4	889.4

(END OF REPORT)