

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: P1029299

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029299
REPORT IS A COMBINATION OF REPORTS P985430 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D970UB2750-4F0-XX-W2A-F_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

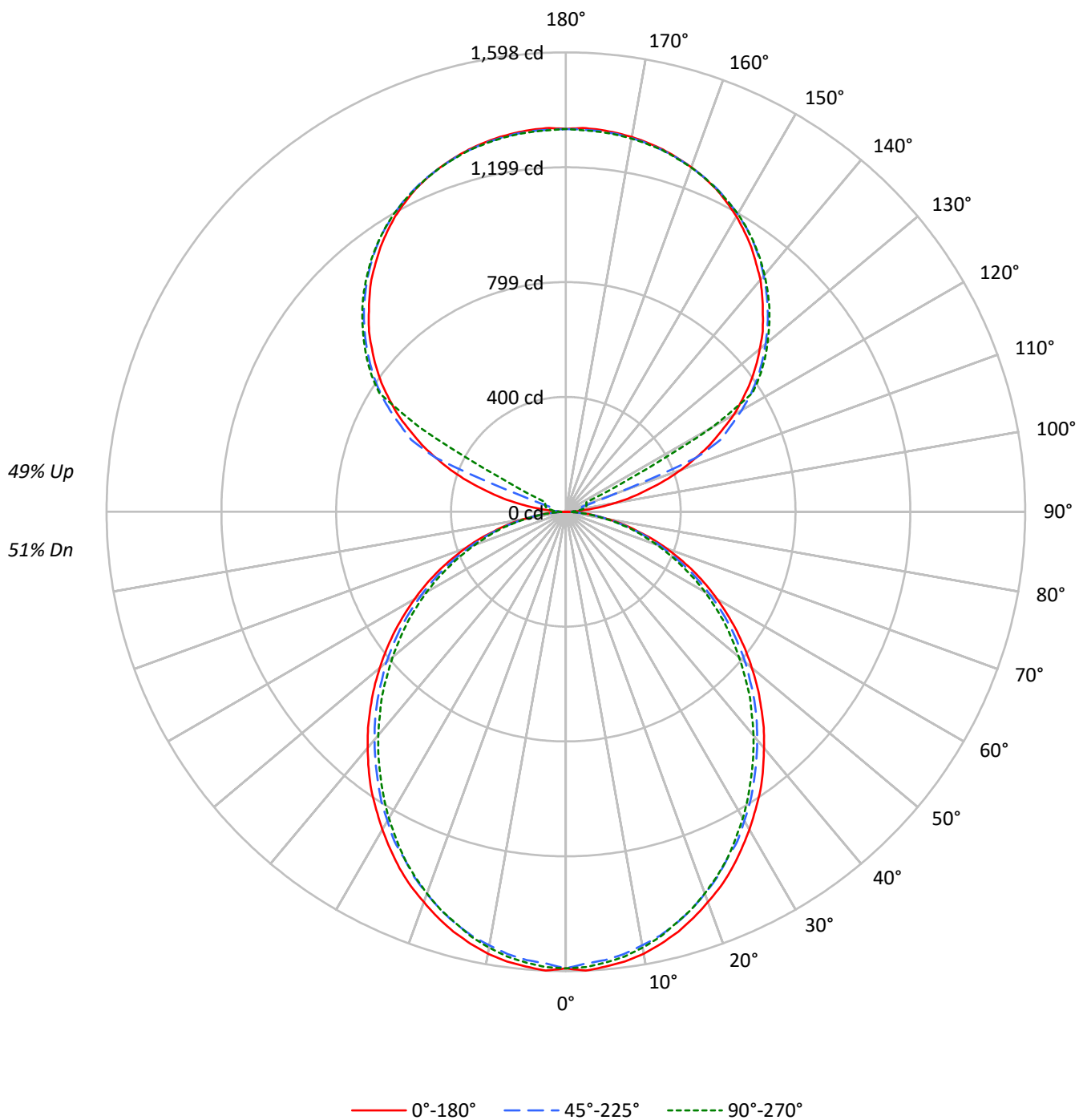
Lumens per Lamp: N/A
Luminaire Lumens: 7947.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	61	60	58	50	49	48
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	41
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	34
4	74	64	56	50	68	59	52	47	50	45	41	43	38	35	35	32	30
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	28	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	25	23
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15

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	1.9
10°-20°	420.6	5.3
20°-30°	618.1	7.8
30°-40°	717.9	9.0
40°-50°	717.0	9.0
50°-60°	625.2	7.9
60°-70°	462.2	5.8
70°-80°	261.5	3.3
80°-90°	71.4	0.9
90°-100°	43.9	0.6
100°-110°	163.7	2.1
110°-120°	434.1	5.5
120°-130°	720.0	9.1
130°-140°	764.8	9.6
140°-150°	710.8	8.9
150°-160°	571.4	7.2
160°-170°	368.2	4.6
170°-180°	126.7	1.6
0°-30°	1188.2	15.0
0°-40°	1906.1	24.0
0°-60°	3248.3	40.9
0°-90°	4043.4	50.9
90°-120°	641.7	8.1
90°-150°	2837.2	35.7
90°-180°	3904.0	49.1
0°-180°	7947.0	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	12	19	24	26	7
95°	63	31	38	42	41	74
105°	293	322	59	69	73	313
115°	554	570	594	148	79	545
125°	783	796	814	821	824	699
135°	969	985	993	1003	1001	749
145°	1124	1123	1140	1147	1142	703
155°	1238	1229	1241	1247	1239	571
165°	1305	1299	1302	1308	1302	369
175°	1334	1328	1330	1336	1327	127
180°	1332	1332	1332	1332	1332	

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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°	1.0	11.6	19.3	24.1	26.0
92.5°	24.1	20.2	23.1	25.1	26.0
95°	62.6	30.8	37.6	42.4	41.4
97.5°	112.7	33.7	49.1	52.0	53.0
100°	170.5	38.5	54.9	62.6	64.6
102.5°	234.1	232.2	56.8	67.4	70.3
105°	292.9	321.8	58.8	69.4	73.2
107.5°	361.3	385.4	60.7	71.3	75.2
110°	426.8	447.1	168.6	72.3	76.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.5	505.8	489.5	74.2	77.1
115°	554.0	570.4	594.5	148.4	79.0
117.5°	610.9	630.1	646.5	508.7	256.3
120°	674.4	688.9	706.2	717.8	587.7
122.5°	728.4	743.8	763.1	768.9	769.8
125°	783.3	795.9	814.2	820.9	823.8
127.5°	833.4	846.9	861.4	871.0	872.0
130°	880.6	896.1	906.7	917.3	916.3
132.5°	928.8	941.3	951.9	960.6	959.6
135°	969.3	984.7	993.4	1003.0	1001.1
137.5°	1011.7	1023.2	1032.9	1042.5	1039.6
140°	1053.1	1060.8	1071.4	1080.1	1075.3
142.5°	1087.8	1094.5	1107.1	1114.8	1110.0
145°	1124.4	1123.4	1139.8	1146.6	1141.7
147.5°	1156.2	1153.3	1169.7	1174.5	1170.7
150°	1187.0	1180.3	1195.7	1201.5	1196.7
152.5°	1213.0	1205.3	1219.8	1225.6	1218.8
155°	1238.1	1229.4	1241.0	1246.8	1239.1
157.5°	1258.3	1250.6	1259.3	1266.0	1258.3
160°	1275.7	1269.9	1275.7	1281.5	1274.7
162.5°	1291.1	1285.3	1290.1	1296.9	1288.2
165°	1304.6	1298.8	1301.7	1308.4	1301.7
167.5°	1315.2	1309.4	1312.3	1319.0	1310.4
170°	1323.8	1318.1	1320.0	1326.7	1318.1
172.5°	1329.6	1323.8	1325.8	1332.5	1323.8
175°	1334.4	1327.7	1329.6	1336.4	1326.7
177.5°	1336.4	1329.6	1330.6	1337.3	1328.7
180°	1331.6	1331.6	1331.6	1331.6	1331.6

(END OF REPORT)