

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: P1029194

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029194
REPORT IS A COMBINATION OF REPORTS P985132 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D1_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

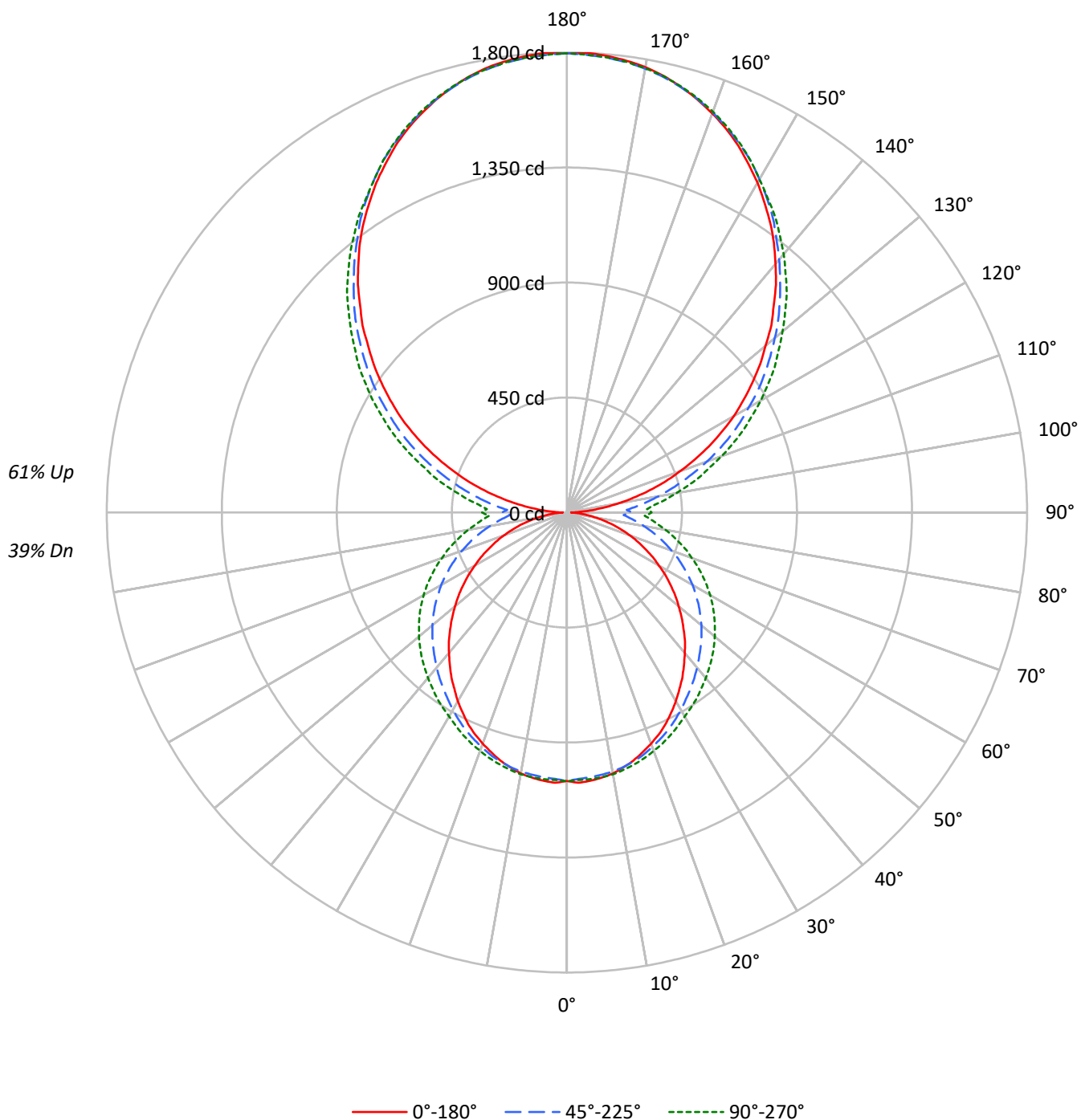
Lumens per Lamp: N/A
Luminaire Lumens: 9038.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 113.5
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	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46			39
1	94	89	85	81	85	81	78	74	66	63	61	52	50	49	39	38	37			31
2	85	77	71	65	77	70	65	60	57	53	50	45	42	40	34	32	30			25
3	77	68	60	54	70	62	55	50	50	45	41	39	36	33	30	27	25			20
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	26	23	21			17
5	65	53	44	38	58	48	41	35	39	34	30	31	27	24	23	21	18			15
6	59	47	39	33	54	43	36	30	35	30	26	28	24	21	21	18	16			13
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13			10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.1
10°-20°	285.7	3.2
20°-30°	432.8	4.8
30°-40°	527.1	5.8
40°-50°	567.1	6.3
50°-60°	550.7	6.1
60°-70°	481.0	5.3
70°-80°	370.2	4.1
80°-90°	253.0	2.8
90°-100°	282.2	3.1
100°-110°	478.3	5.3
110°-120°	687.2	7.6
120°-130°	841.2	9.3
130°-140°	911.9	10.1
140°-150°	878.6	9.7
150°-160°	734.3	8.1
160°-170°	487.0	5.4
170°-180°	170.2	1.9
0°-30°	818.1	9.1
0°-40°	1345.2	14.9
0°-60°	2463.0	27.3
0°-90°	3567.2	39.5
90°-120°	1447.6	16.0
90°-150°	4079.3	45.1
90°-180°	5471.0	60.5
0°-180°	9038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	17	123	254	312	332	16
95°	91	178	272	330	345	98
105°	334	382	465	521	538	353
115°	613	638	704	748	760	606
125°	886	899	943	980	992	792
135°	1143	1160	1178	1209	1216	884
145°	1386	1397	1406	1416	1418	866
155°	1585	1589	1594	1601	1597	729
165°	1724	1723	1723	1733	1726	486
175°	1794	1789	1786	1797	1788	170
180°	1797	1797	1797	1797	1797	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	16.7	123.2	254.1	311.9	331.8
92.5°	47.1	139.9	234.3	295.2	313.5
95°	91.1	177.7	272.1	330.0	345.2
97.5°	142.6	221.7	316.1	372.4	390.7
100°	203.3	271.7	361.6	417.9	433.1
102.5°	265.4	324.8	413.0	469.4	484.6
105°	333.6	382.4	464.6	520.8	537.6
107.5°	403.4	446.0	522.1	575.5	584.6
110°	468.6	508.1	582.8	631.5	643.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	541.4	574.9	643.4	687.5	701.3
115°	612.7	638.5	704.0	748.1	760.4
117.5°	682.4	706.7	763.1	804.2	814.9
120°	753.7	771.9	820.7	863.3	875.6
122.5°	818.9	835.6	884.3	920.8	931.5
125°	885.5	899.2	943.4	980.0	992.2
127.5°	952.3	967.4	1002.5	1034.5	1043.7
130°	1014.4	1032.7	1061.6	1095.1	1101.2
132.5°	1084.2	1097.9	1122.3	1149.7	1157.3
135°	1143.3	1160.0	1178.3	1208.7	1216.4
137.5°	1210.1	1223.7	1234.4	1261.8	1266.4
140°	1269.2	1281.4	1291.9	1316.3	1319.4
142.5°	1329.9	1342.0	1346.6	1366.4	1367.9
145°	1386.0	1396.6	1405.7	1416.3	1417.9
147.5°	1437.5	1451.2	1457.3	1461.8	1460.3
150°	1490.6	1499.7	1505.8	1510.3	1505.8
152.5°	1537.6	1546.7	1554.3	1560.4	1554.3
155°	1584.6	1589.2	1593.7	1601.3	1596.8
157.5°	1625.6	1628.6	1631.6	1642.3	1634.7
160°	1662.0	1665.0	1666.5	1675.6	1669.6
162.5°	1695.3	1695.3	1696.9	1707.5	1699.9
165°	1724.1	1722.6	1722.6	1733.2	1725.7
167.5°	1749.9	1745.4	1745.4	1756.0	1748.4
170°	1769.6	1765.1	1763.6	1774.2	1765.1
172.5°	1783.3	1778.7	1777.2	1787.8	1778.7
175°	1793.9	1789.4	1786.3	1796.9	1787.8
177.5°	1800.0	1795.4	1792.4	1801.5	1792.4
180°	1796.9	1796.9	1796.9	1796.9	1796.9

(END OF REPORT)