

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: P1029195

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029195
REPORT IS A COMBINATION OF REPORTS P985133 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

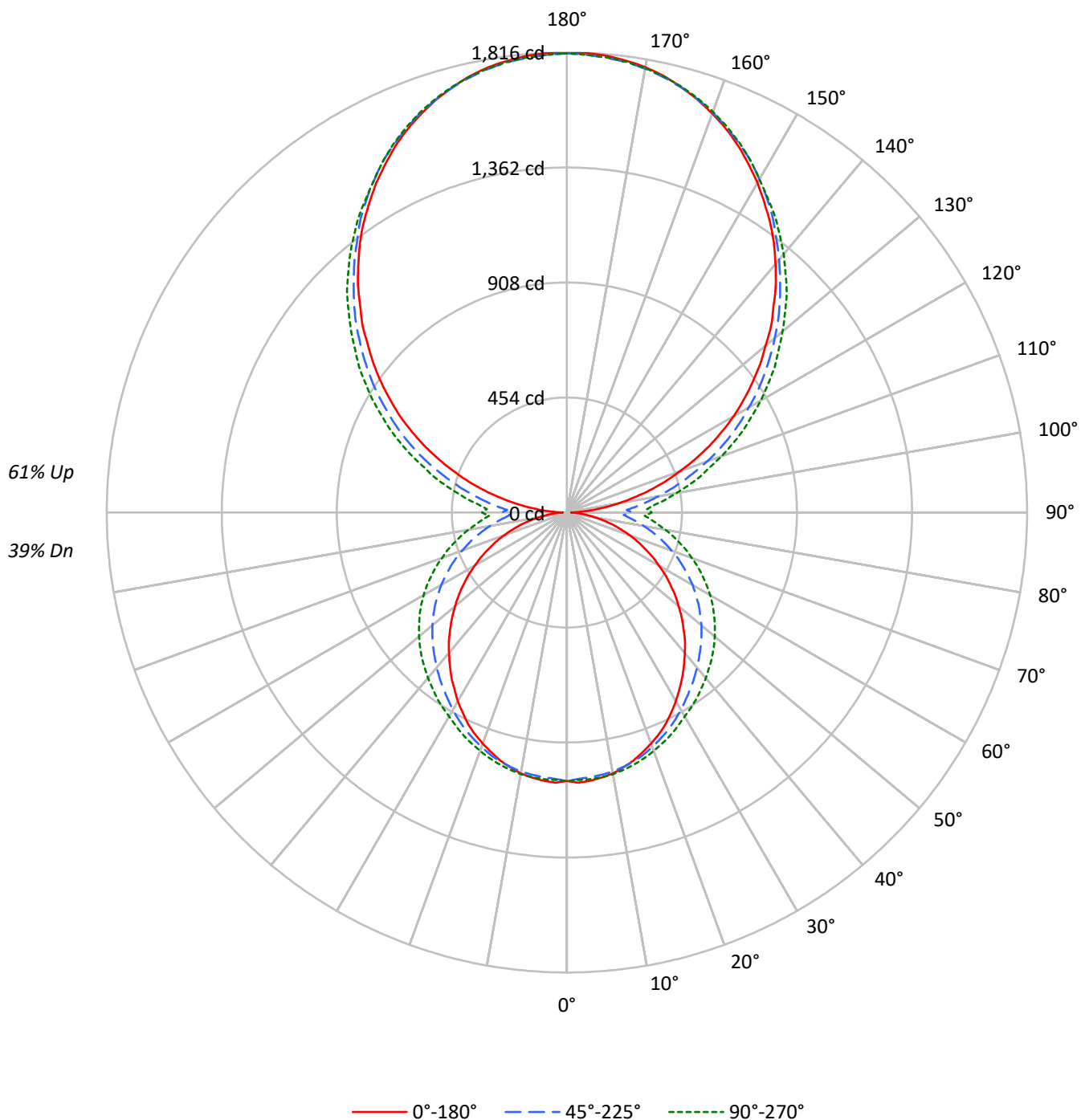
Lumens per Lamp: N/A
Luminaire Lumens: 9117.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.1
10°-20°	288.2	3.2
20°-30°	436.6	4.8
30°-40°	531.7	5.8
40°-50°	572.0	6.3
50°-60°	555.5	6.1
60°-70°	485.2	5.3
70°-80°	373.4	4.1
80°-90°	255.2	2.8
90°-100°	284.6	3.1
100°-110°	482.5	5.3
110°-120°	693.2	7.6
120°-130°	848.5	9.3
130°-140°	919.9	10.1
140°-150°	886.3	9.7
150°-160°	740.7	8.1
160°-170°	491.2	5.4
170°-180°	171.7	1.9
0°-30°	825.2	9.1
0°-40°	1356.9	14.9
0°-60°	2484.5	27.3
0°-90°	3598.3	39.5
90°-120°	1460.3	16.0
90°-150°	4115.0	45.1
90°-180°	5519.0	60.5
0°-180°	9117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	17	124	256	315	335	16
95°	92	179	274	333	348	98
105°	337	386	469	526	542	356
115°	618	644	710	755	767	611
125°	893	907	952	989	1001	799
135°	1153	1170	1189	1219	1227	892
145°	1398	1409	1418	1429	1430	874
155°	1598	1603	1608	1615	1611	736
165°	1739	1738	1738	1748	1741	491
175°	1810	1805	1802	1813	1804	172
180°	1813	1813	1813	1813	1813	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	16.9	124.3	256.3	314.7	334.6
92.5°	47.5	141.1	236.3	297.7	316.2
95°	91.8	179.3	274.5	332.9	348.2
97.5°	143.9	223.6	318.9	375.7	394.2
100°	205.1	274.1	364.7	421.5	436.9
102.5°	267.7	327.6	416.6	473.4	488.8
105°	336.6	385.7	468.6	525.5	542.4
107.5°	406.9	449.9	526.7	580.5	589.7
110°	472.6	512.6	587.8	637.0	649.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	546.1	579.9	649.0	693.5	707.4
115°	618.0	644.0	710.2	754.7	767.0
117.5°	688.4	712.9	769.8	811.3	822.0
120°	760.3	778.7	827.9	870.9	883.2
122.5°	826.0	842.8	892.1	928.9	939.7
125°	893.4	907.1	951.6	988.6	1000.8
127.5°	960.7	975.9	1011.3	1043.6	1052.8
130°	1023.4	1041.7	1070.9	1104.8	1110.8
132.5°	1093.8	1107.4	1132.1	1159.7	1167.4
135°	1153.3	1170.2	1188.6	1219.4	1227.0
137.5°	1220.6	1234.4	1245.2	1272.8	1277.5
140°	1280.3	1292.6	1303.3	1327.8	1331.0
142.5°	1341.5	1353.8	1358.3	1378.3	1379.9
145°	1398.1	1408.8	1418.0	1428.7	1430.3
147.5°	1450.1	1463.9	1470.0	1474.6	1473.1
150°	1503.7	1512.8	1519.0	1523.5	1519.0
152.5°	1551.1	1560.3	1567.9	1574.0	1567.9
155°	1598.5	1603.1	1607.7	1615.3	1610.7
157.5°	1639.8	1642.9	1645.9	1656.6	1649.0
160°	1676.5	1679.6	1681.1	1690.3	1684.2
162.5°	1710.2	1710.2	1711.7	1722.4	1714.8
165°	1739.2	1737.7	1737.7	1748.4	1740.8
167.5°	1765.2	1760.6	1760.6	1771.4	1763.7
170°	1785.1	1780.5	1779.0	1789.7	1780.5
172.5°	1798.9	1794.3	1792.8	1803.5	1794.3
175°	1809.6	1805.0	1801.9	1812.7	1803.5
177.5°	1815.7	1811.1	1808.1	1817.2	1808.1
180°	1812.7	1812.7	1812.7	1812.7	1812.7

(END OF REPORT)