

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: P1029199

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029199
REPORT IS A COMBINATION OF REPORTS P985142 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-D_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

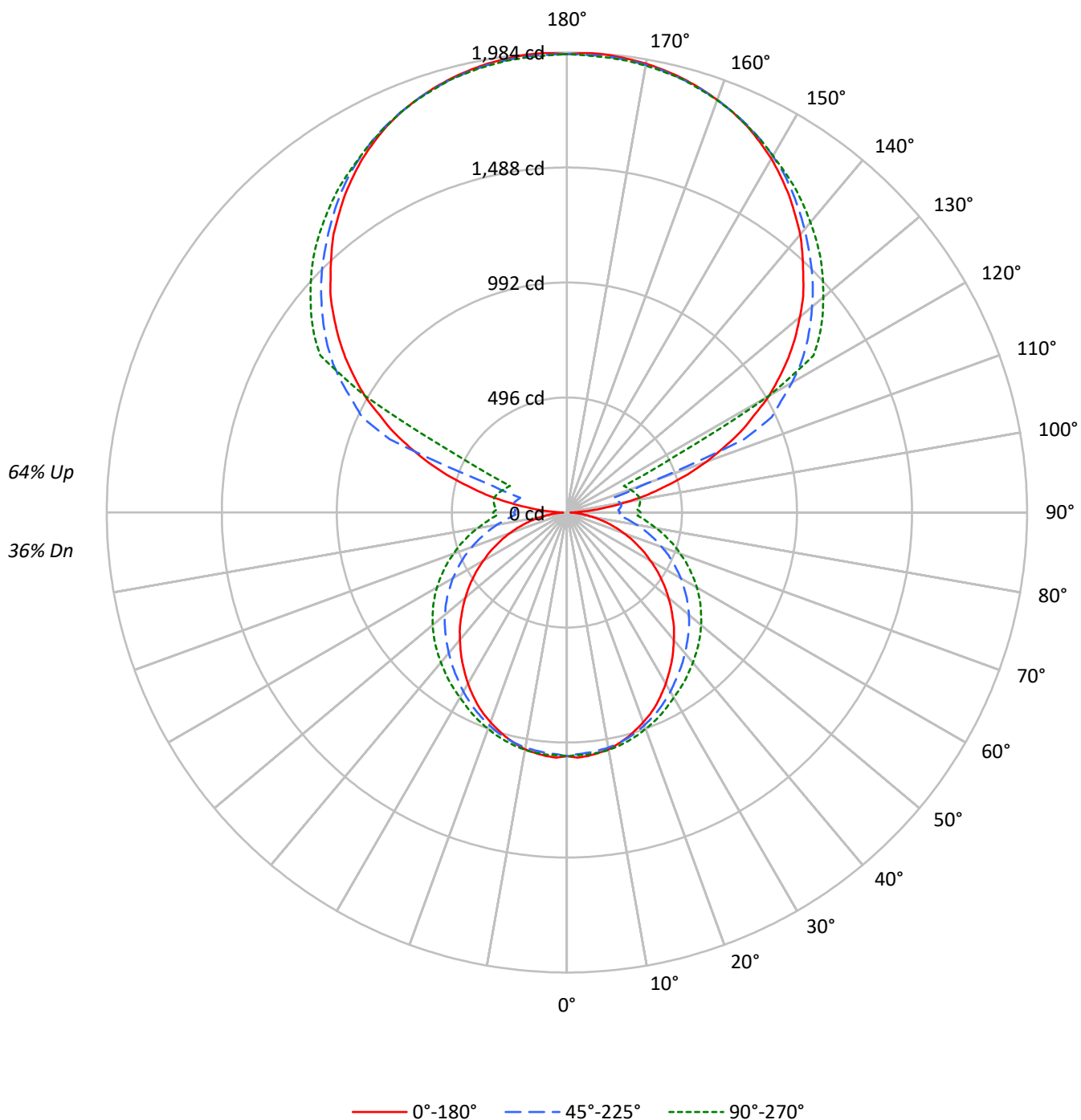
Lumens per Lamp: N/A
Luminaire Lumens: 9809.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	89	85	81	84	80	77	74	65	62	60	50	48	47	37	36	35
2	85	77	71	65	76	70	64	59	56	52	49	43	41	38	32	30	28
3	77	67	60	54	69	61	54	49	49	44	40	38	35	32	28	25	24
4	70	59	51	45	63	54	47	41	43	38	34	34	30	27	25	22	20
5	64	53	44	38	58	48	40	35	39	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	35	30	35	29	25	27	23	20	20	17	15
7	55	42	34	29	49	38	31	26	31	26	22	24	20	18	18	15	13
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	17	14	12
9	47	35	27	22	42	32	25	20	26	21	17	20	17	14	15	13	11
10	44	32	24	20	39	29	23	18	24	19	15	19	15	12	14	11	10

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	1.0
10°-20°	285.7	2.9
20°-30°	432.8	4.4
30°-40°	527.1	5.4
40°-50°	567.1	5.8
50°-60°	550.7	5.6
60°-70°	481.0	4.9
70°-80°	370.2	3.8
80°-90°	251.4	2.6
90°-100°	236.3	2.4
100°-110°	368.0	3.8
110°-120°	727.1	7.4
120°-130°	1115.0	11.4
130°-140°	1154.9	11.8
140°-150°	1058.7	10.8
150°-160°	848.5	8.7
160°-170°	546.8	5.6
170°-180°	188.2	1.9
0°-30°	818.1	8.3
0°-40°	1345.2	13.7
0°-60°	2463.0	25.1
0°-90°	3565.6	36.3
90°-120°	1331.3	13.6
90°-150°	4659.9	47.5
90°-180°	6243.0	63.6
0°-180°	9809.0	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	121	230	298	319	16
95°	105	130	231	296	313	120
105°	442	530	218	287	310	473
115°	829	870	974	357	271	815
125°	1166	1185	1261	1312	1330	1041
135°	1441	1464	1492	1538	1547	1113
145°	1670	1668	1692	1712	1712	1045
155°	1838	1826	1843	1851	1840	847
165°	1937	1929	1933	1943	1933	547
175°	1982	1972	1974	1984	1970	189
180°	1977	1977	1977	1977	1977	

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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°	16.6	120.7	229.6	297.7	318.8
92.5°	49.5	124.4	221.6	283.9	303.6
95°	105.2	129.5	230.9	296.0	312.7
97.5°	178.1	126.2	237.5	298.1	317.8
100°	263.9	124.2	233.8	301.6	321.3
102.5°	356.8	404.2	226.0	296.5	317.6
105°	442.5	529.7	218.3	287.2	309.7
107.5°	544.1	616.5	210.4	278.0	300.4
110°	639.9	700.3	361.6	267.2	289.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	731.5	781.6	827.3	259.4	280.5
115°	828.8	869.8	974.1	357.3	271.1
117.5°	911.7	952.4	1040.7	881.8	522.2
120°	1006.1	1033.6	1120.3	1180.1	1003.7
122.5°	1086.2	1110.6	1195.5	1245.2	1260.3
125°	1166.2	1184.8	1260.7	1311.9	1329.8
127.5°	1240.6	1259.1	1321.6	1374.0	1389.2
130°	1310.7	1332.0	1379.8	1432.0	1442.8
132.5°	1382.2	1399.3	1437.9	1485.8	1496.6
135°	1440.8	1463.7	1491.7	1538.1	1547.4
137.5°	1503.7	1520.9	1542.8	1586.1	1592.4
140°	1565.3	1575.2	1593.9	1631.2	1633.2
142.5°	1616.8	1625.3	1643.9	1673.6	1674.1
145°	1669.6	1668.2	1692.5	1711.6	1712.1
147.5°	1716.8	1712.5	1736.9	1745.5	1744.4
150°	1762.6	1752.6	1775.5	1784.1	1776.9
152.5°	1801.2	1789.8	1811.3	1819.8	1809.8
155°	1838.4	1825.6	1842.7	1851.3	1839.9
157.5°	1868.5	1857.0	1869.9	1879.9	1868.5
160°	1894.2	1885.7	1894.2	1902.8	1892.8
162.5°	1917.1	1908.5	1915.7	1925.7	1912.8
165°	1937.2	1928.6	1932.9	1942.9	1932.9
167.5°	1952.9	1944.3	1948.6	1958.6	1945.7
170°	1965.8	1957.2	1960.1	1970.1	1957.2
172.5°	1974.4	1965.8	1968.6	1978.7	1965.8
175°	1981.5	1971.5	1974.4	1984.4	1970.1
177.5°	1984.4	1974.4	1975.8	1985.8	1972.9
180°	1977.2	1977.2	1977.2	1977.2	1977.2

(END OF REPORT)