

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: P1029196

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029196
REPORT IS A COMBINATION OF REPORTS P985134 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_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

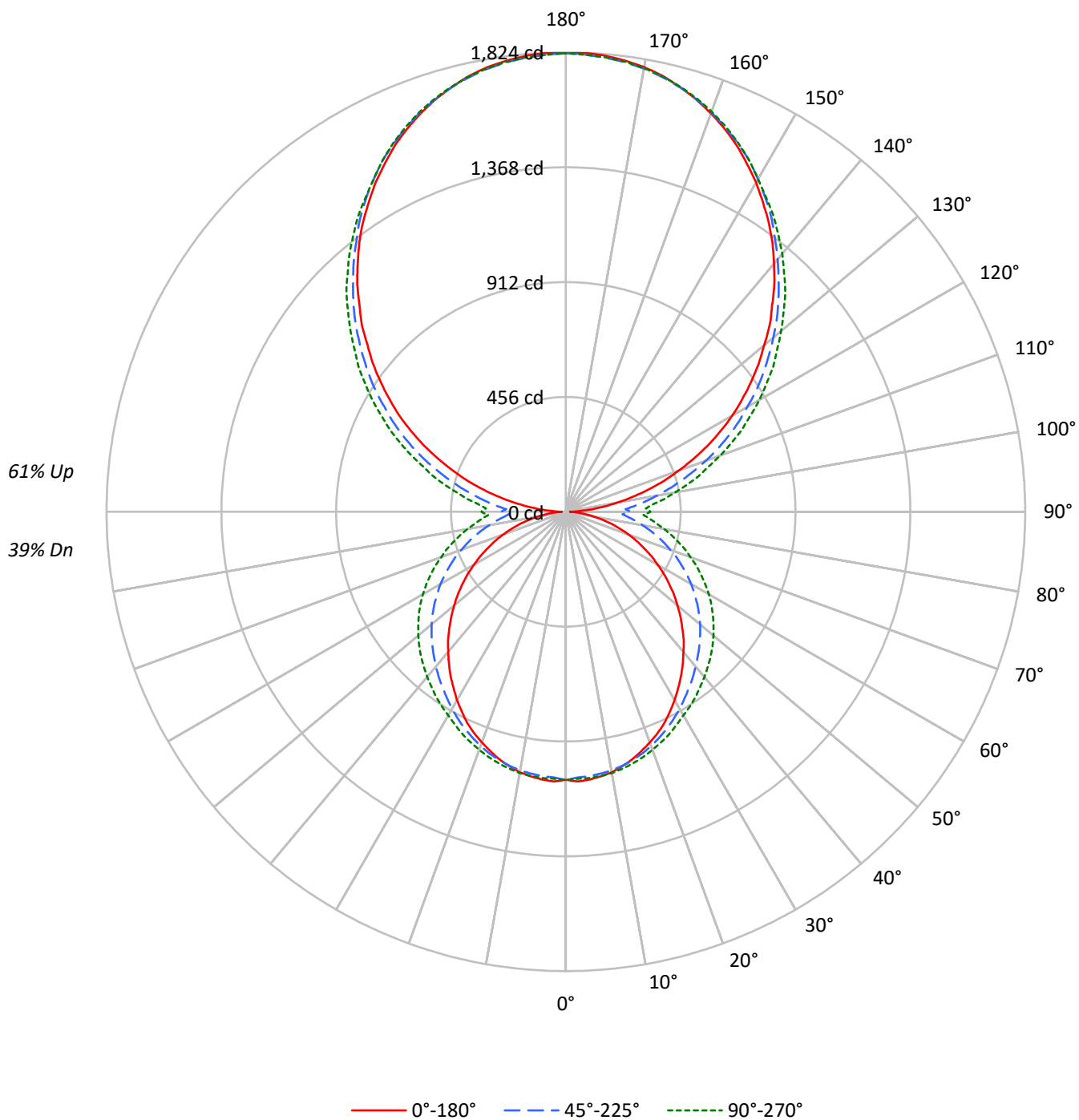
Lumens per Lamp: N/A
Luminaire Lumens: 9156.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.1
10°-20°	289.4	3.2
20°-30°	438.5	4.8
30°-40°	533.9	5.8
40°-50°	574.5	6.3
50°-60°	557.9	6.1
60°-70°	487.2	5.3
70°-80°	375.0	4.1
80°-90°	256.3	2.8
90°-100°	285.9	3.1
100°-110°	484.6	5.3
110°-120°	696.1	7.6
120°-130°	852.2	9.3
130°-140°	923.9	10.1
140°-150°	890.1	9.7
150°-160°	743.9	8.1
160°-170°	493.4	5.4
170°-180°	172.4	1.9
0°-30°	828.7	9.1
0°-40°	1362.6	14.9
0°-60°	2495.0	27.2
0°-90°	3613.5	39.5
90°-120°	1466.6	16.0
90°-150°	4132.8	45.1
90°-180°	5543.0	60.5
0°-180°	9156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	17	125	257	316	336	16
95°	92	180	276	334	350	99
105°	338	387	471	528	545	358
115°	621	647	713	758	770	614
125°	897	911	956	993	1005	802
135°	1158	1175	1194	1225	1232	896
145°	1404	1415	1424	1435	1436	878
155°	1605	1610	1615	1622	1618	739
165°	1747	1745	1745	1756	1748	493
175°	1817	1813	1810	1820	1811	173
180°	1820	1820	1820	1820	1820	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	16.9	124.9	257.4	316.0	336.0
92.5°	47.7	141.7	237.3	299.1	317.6
95°	92.2	180.1	275.7	334.3	349.8
97.5°	144.5	224.6	320.2	377.3	395.8
100°	205.9	275.3	366.2	423.3	438.8
102.5°	268.9	329.1	418.4	475.5	490.9
105°	338.0	387.3	470.7	527.7	544.7
107.5°	408.7	451.8	529.0	583.0	592.3
110°	474.8	514.8	590.4	639.8	652.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	548.5	582.3	651.8	696.6	710.4
115°	620.7	646.8	713.2	757.9	770.3
117.5°	691.3	716.0	773.1	814.7	825.5
120°	763.5	782.0	831.4	874.6	887.0
122.5°	829.6	846.6	895.9	933.0	943.8
125°	897.2	911.1	955.7	992.8	1005.2
127.5°	964.8	980.1	1015.7	1048.1	1057.3
130°	1027.8	1046.2	1075.5	1109.5	1115.7
132.5°	1098.5	1112.2	1137.0	1164.8	1172.5
135°	1158.3	1175.2	1193.8	1224.7	1232.4
137.5°	1225.9	1239.8	1250.6	1278.4	1283.0
140°	1285.8	1298.2	1309.0	1333.7	1336.7
142.5°	1347.3	1359.6	1364.2	1384.3	1385.8
145°	1404.2	1414.9	1424.2	1435.0	1436.5
147.5°	1456.4	1470.2	1476.4	1481.0	1479.5
150°	1510.2	1519.4	1525.5	1530.2	1525.5
152.5°	1557.8	1567.0	1574.7	1580.9	1574.7
155°	1605.4	1610.0	1614.7	1622.3	1617.7
157.5°	1646.9	1650.0	1653.1	1663.8	1656.1
160°	1683.8	1686.9	1688.4	1697.6	1691.5
162.5°	1717.6	1717.6	1719.1	1729.9	1722.2
165°	1746.8	1745.2	1745.2	1756.0	1748.3
167.5°	1772.9	1768.3	1768.3	1779.0	1771.4
170°	1792.9	1788.3	1786.7	1797.5	1788.3
172.5°	1806.7	1802.1	1800.5	1811.3	1802.1
175°	1817.4	1812.8	1809.8	1820.5	1811.3
177.5°	1823.6	1819.0	1815.9	1825.1	1815.9
180°	1820.5	1820.5	1820.5	1820.5	1820.5

(END OF REPORT)