

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: P1029654

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029654
REPORT IS A COMBINATION OF REPORTS P986511 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

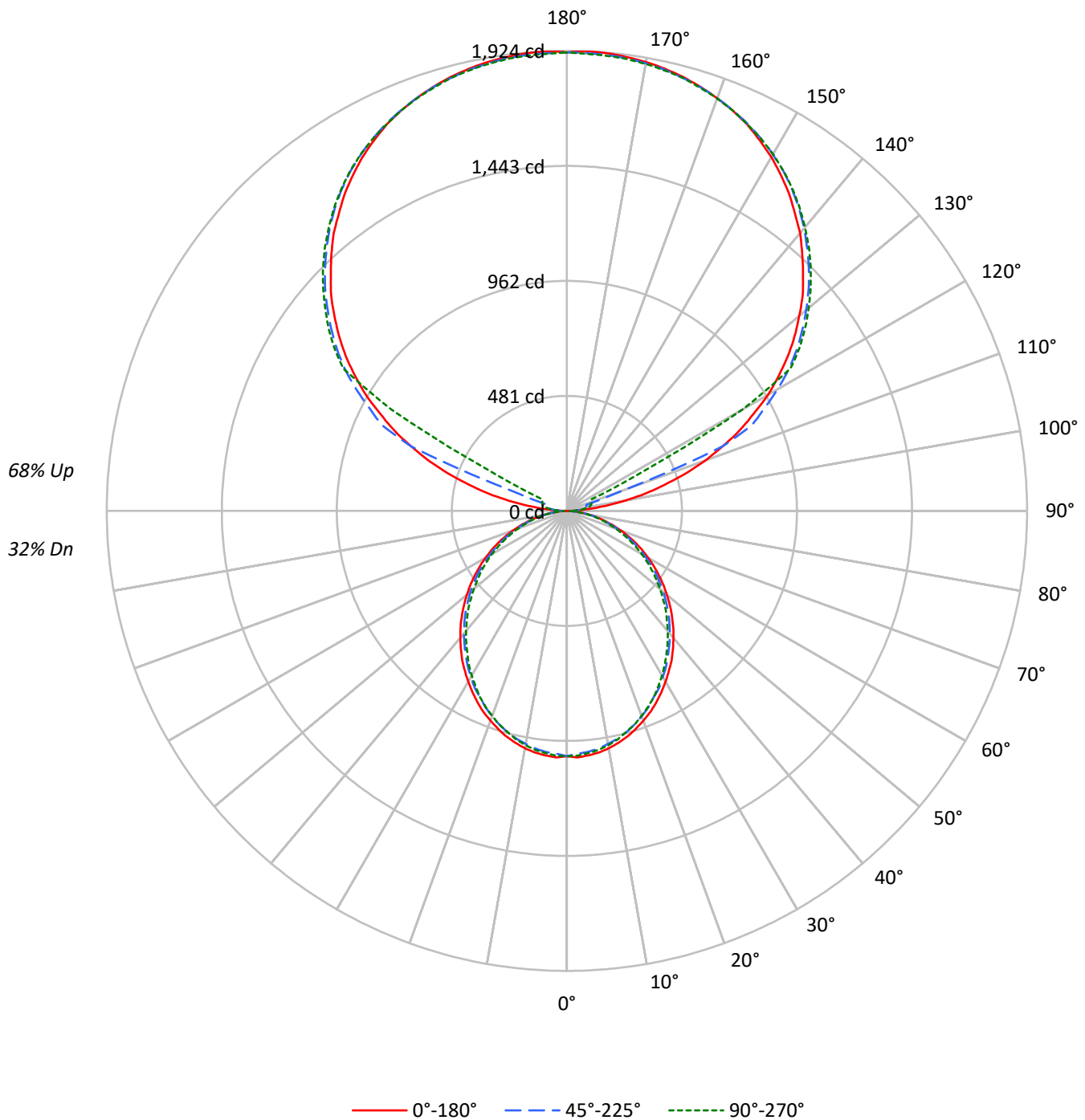
Lumens per Lamp: N/A
Luminaire Lumens: 8236.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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

TEST NUMBER: P1029654

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029654

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_5000K

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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	38	31	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16246	16246	16246
5°	16272	15485	15375
10°	16139	14779	14486
15°	15903	14068	13550
20°	15583	13295	12665
25°	15265	12487	11780
30°	14865	11728	10853
35°	14487	10926	9941
40°	14020	10138	9078
45°	13556	9353	8234
50°	13050	8556	7357
55°	12516	7703	6527
60°	11916	6780	5664
65°	11262	5842	4757
70°	10428	4815	3841
75°	9275	3712	2965
80°	7880	2522	1909
85°	5721	1174	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13556 cd/sqm

TEST NUMBER: P1029654

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.2
10°-20°	271.8	3.3
20°-30°	399.4	4.8
30°-40°	463.9	5.6
40°-50°	463.3	5.6
50°-60°	404.0	4.9
60°-70°	298.6	3.6
70°-80°	169.0	2.1
80°-90°	48.0	0.6
90°-100°	63.3	0.8
100°-110°	235.7	2.9
110°-120°	625.1	7.6
120°-130°	1036.8	12.6
130°-140°	1101.4	13.4
140°-150°	1023.6	12.4
150°-160°	822.9	10.0
160°-170°	530.3	6.4
170°-180°	182.5	2.2
0°-30°	767.7	9.3
0°-40°	1231.6	15.0
0°-60°	2098.9	25.5
0°-90°	2614.4	31.7
90°-120°	924.1	11.2
90°-150°	4085.9	49.6
90°-180°	5622.0	68.3
0°-180°	8236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1026	1022	1012	1019	1017	97
15°	977	971	958	962	957	275
25°	884	876	860	862	860	407
35°	763	753	737	731	726	476
45°	621	614	599	588	584	479
55°	470	464	452	440	435	420
65°	317	311	301	292	287	313
75°	166	164	159	153	155	177
85°	40	40	38	36	34	45
90°	1	17	28	35	38	8
95°	90	44	54	61	60	107
105°	422	463	85	100	106	451
115°	798	821	856	214	114	785
125°	1128	1146	1172	1182	1186	1006
135°	1396	1418	1430	1444	1442	1078
145°	1619	1618	1641	1651	1644	1013
155°	1783	1770	1787	1796	1784	822
165°	1879	1870	1875	1884	1875	531
175°	1922	1912	1915	1924	1911	183
180°	1918	1918	1918	1918	1918	

TEST NUMBER: P1029654

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.3	1026.3	1026.3	1026.3	1026.3
2.5°	1032.2	1027.3	1016.4	1026.3	1024.3
5°	1026.3	1022.3	1011.5	1019.4	1017.4
7.5°	1019.4	1013.4	1002.6	1010.5	1008.5
10°	1008.5	1001.6	989.8	997.7	994.7
12.5°	993.7	987.8	975.9	980.9	978.9
15°	976.9	971.0	958.2	962.1	957.2
17.5°	956.2	950.3	937.5	942.4	937.5
20°	933.5	927.6	913.8	916.7	912.8
22.5°	910.8	901.9	889.1	889.1	887.1
25°	884.2	876.3	859.5	861.5	859.5
27.5°	854.6	847.7	834.8	831.9	826.9
30°	825.0	817.1	802.3	799.3	795.4
32.5°	793.4	787.5	771.7	765.8	761.8
35°	762.8	752.9	737.1	731.2	726.3
37.5°	728.3	719.4	703.6	696.7	691.7
40°	692.7	684.8	669.1	660.2	656.2
42.5°	658.2	650.3	634.5	624.6	618.7
45°	620.7	613.8	599.0	588.1	584.2
47.5°	584.2	577.3	561.5	550.6	544.7
50°	545.7	540.8	527.0	513.1	508.2
52.5°	508.2	501.3	488.5	477.6	470.7
55°	469.7	463.8	452.0	440.1	435.2
57.5°	431.2	426.3	413.5	401.6	397.7
60°	392.7	388.8	375.0	364.1	361.2
62.5°	355.2	348.3	338.5	328.6	324.7
65°	316.8	310.8	301.0	292.1	287.2
67.5°	277.3	272.4	263.5	256.6	252.6
70°	240.8	236.8	228.0	221.0	217.1
72.5°	203.3	199.3	194.4	187.5	184.5
75°	165.8	163.8	158.9	153.0	154.9
77.5°	132.2	128.3	126.3	123.3	120.4
80°	98.7	97.7	95.7	92.8	90.8
82.5°	67.1	67.1	66.1	62.2	62.2
85°	40.5	39.5	38.5	35.5	34.5
87.5°	17.8	15.8	13.8	10.9	9.9
90°	1.4	16.7	27.8	34.7	37.5
92.5°	34.7	29.1	33.3	36.1	37.5
95°	90.2	44.4	54.1	61.1	59.7
97.5°	162.3	48.6	70.8	74.9	76.3
100°	245.6	55.5	79.1	90.2	93.0
102.5°	337.2	334.4	81.9	97.1	101.3
105°	421.8	463.4	84.6	99.9	105.5
107.5°	520.3	555.0	87.4	102.7	108.2
110°	614.7	643.8	242.8	104.1	109.6

TEST NUMBER: P1029654

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	703.5	728.5	704.9	106.8	111.0
115°	797.8	821.4	856.1	213.7	113.8
117.5°	879.7	907.4	931.0	732.6	369.1
120°	971.3	992.1	1017.1	1033.7	846.4
122.5°	1049.0	1071.2	1098.9	1107.2	1108.6
125°	1128.1	1146.1	1172.5	1182.2	1186.3
127.5°	1200.2	1219.6	1240.5	1254.3	1255.7
130°	1268.2	1290.4	1305.7	1320.9	1319.5
132.5°	1337.6	1355.6	1370.9	1383.4	1382.0
135°	1395.9	1418.1	1430.5	1444.4	1441.6
137.5°	1456.9	1473.6	1487.4	1501.3	1497.1
140°	1516.6	1527.7	1542.9	1555.4	1548.5
142.5°	1566.5	1576.2	1594.3	1605.4	1598.4
145°	1619.2	1617.9	1641.4	1651.2	1644.2
147.5°	1665.0	1660.9	1684.5	1691.4	1685.8
150°	1709.4	1699.7	1721.9	1730.2	1723.3
152.5°	1746.9	1735.8	1756.6	1764.9	1755.2
155°	1783.0	1770.5	1787.1	1795.5	1784.4
157.5°	1812.1	1801.0	1813.5	1823.2	1812.1
160°	1837.1	1828.8	1837.1	1845.4	1835.7
162.5°	1859.3	1851.0	1857.9	1867.6	1855.1
165°	1878.7	1870.4	1874.6	1884.3	1874.6
167.5°	1894.0	1885.7	1889.8	1899.5	1887.0
170°	1906.5	1898.1	1900.9	1910.6	1898.1
172.5°	1914.8	1906.5	1909.2	1919.0	1906.5
175°	1921.7	1912.0	1914.8	1924.5	1910.6
177.5°	1924.5	1914.8	1916.2	1925.9	1913.4
180°	1917.6	1917.6	1917.6	1917.6	1917.6

(END OF REPORT)