

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: P1029637

Luminaire Tested: S122DIW-B675D1440UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029637
REPORT IS A COMBINATION OF REPORTS P986484 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-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

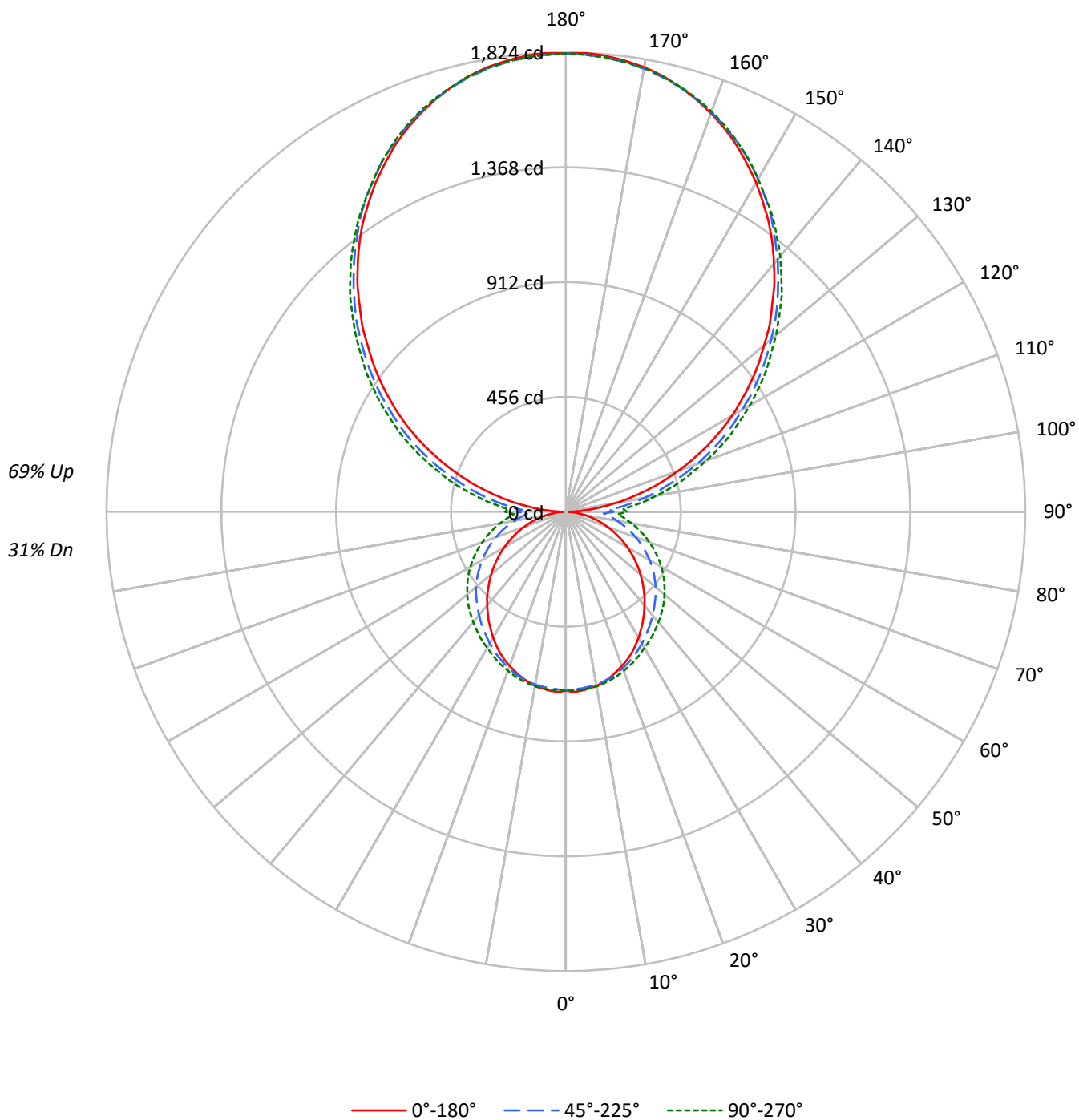
Lumens per Lamp: N/A
Luminaire Lumens: 7809.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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: P1029637

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-D1_3500K

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	103	103	103	103	92	92	92	92	73	73	73		55	55	55		39
1	93	88	84	80	83	79	76	72	62	60	58		47	45	44		33
2	84	76	70	65	75	68	63	59	54	50	47		41	38	36		28
3	76	67	59	53	68	60	54	48	47	43	39		36	32	30		25
4	70	59	51	45	62	53	46	41	42	37	33		31	28	25		22
5	64	52	44	38	57	47	40	35	37	32	28		28	24	22		20
6	58	46	38	33	52	42	35	30	33	28	24		25	21	19		18
7	54	42	34	28	48	38	31	26	30	25	21		23	19	16		16
8	50	38	30	25	45	34	27	23	27	22	19		21	17	14		15
9	46	34	27	22	41	31	25	20	25	20	16		19	15	13		13
10	43	31	24	19	39	28	22	18	23	18	15		17	14	12		12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

TEST NUMBER: P1029637

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-D1_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	0.9
10°-20°	193.4	2.5
20°-30°	293.0	3.8
30°-40°	356.8	4.6
40°-50°	383.9	4.9
50°-60°	372.8	4.8
60°-70°	325.6	4.2
70°-80°	250.6	3.2
80°-90°	173.0	2.2
90°-100°	228.4	2.9
100°-110°	442.6	5.7
110°-120°	668.4	8.6
120°-130°	836.8	10.7
130°-140°	917.4	11.7
140°-150°	889.1	11.4
150°-160°	743.9	9.5
160°-170°	493.4	6.3
170°-180°	172.4	2.2
0°-30°	553.8	7.1
0°-40°	910.7	11.7
0°-60°	1667.4	21.4
0°-90°	2416.6	30.9
90°-120°	1339.4	17.2
90°-150°	3982.6	51.0
90°-180°	5392.0	69.0
0°-180°	7809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	12	90	190	228	242	12
95°	88	152	217	256	265	96
105°	336	370	427	466	477	355
115°	619	639	683	712	719	612
125°	896	910	938	962	969	801
135°	1158	1175	1188	1208	1212	895
145°	1404	1415	1424	1432	1431	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	

TEST NUMBER: P1029637

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-D1_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	11.8	90.1	189.9	228.0	241.9
92.5°	43.1	110.0	174.4	216.2	228.6
95°	88.1	152.0	216.8	256.0	265.4
97.5°	140.9	199.0	264.9	303.1	315.4
100°	202.3	252.8	315.1	353.2	363.1
102.5°	265.8	309.1	370.9	409.5	419.3
105°	335.5	369.9	426.7	465.8	477.2
107.5°	406.2	437.0	488.5	525.2	528.8
110°	472.7	502.5	553.1	586.0	592.8

TEST NUMBER: P1029637

CATALOG NUMBER: S122DIW-B675D1440UB2750-4F0-XX-W2A-D1_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	546.4	572.1	618.0	646.4	654.7
115°	618.6	639.2	682.6	711.9	718.6
117.5°	689.8	710.3	745.9	772.3	778.0
120°	762.0	778.4	807.3	836.2	843.0
122.5°	828.1	844.5	875.0	898.2	904.4
125°	896.2	910.1	938.3	961.6	969.4
127.5°	963.8	979.6	1001.4	1020.9	1025.6
130°	1026.8	1045.7	1064.3	1085.9	1088.1
132.5°	1097.5	1111.7	1128.8	1144.8	1148.4
135°	1157.8	1174.7	1188.1	1208.3	1211.9
137.5°	1225.4	1239.3	1247.5	1265.6	1266.6
140°	1285.3	1298.2	1308.0	1324.5	1324.4
142.5°	1346.8	1359.6	1364.2	1378.2	1377.1
145°	1404.2	1414.9	1424.2	1431.9	1430.8
147.5°	1456.4	1470.2	1476.4	1480.5	1477.4
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)