

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: CORELITE

Report Number: P1428655

Luminaire Tested: SQ2W-WBN-K-150U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428655
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-WBN-K-150U-100D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - WHITE DISCREET BAFFLE, NARROW 35-DEGREE OPTIC
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

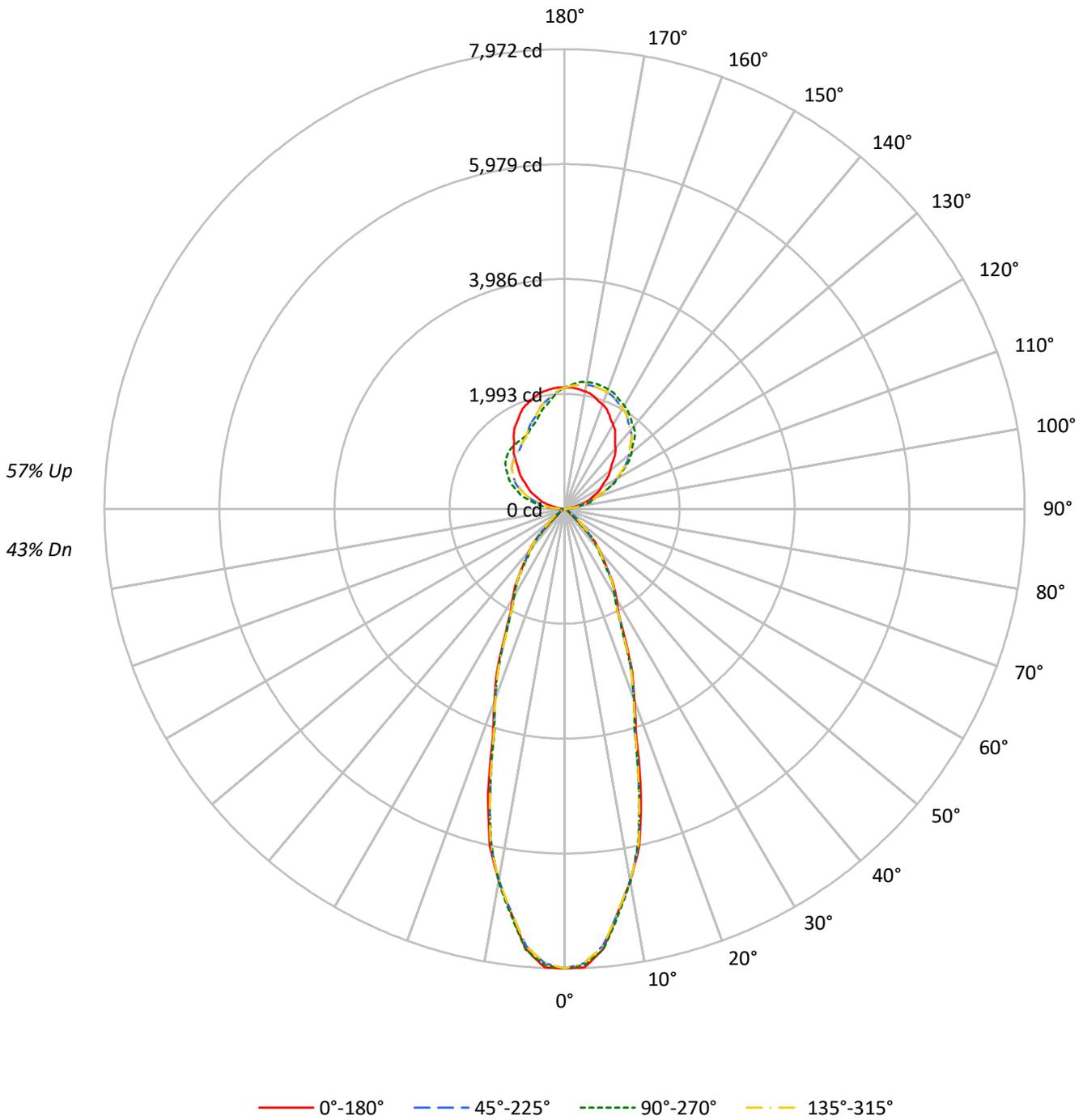
Lumens per Lamp: N/A
Luminaire Lumens: 10788.4 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.2
Input Voltage (V): 120
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43				
1	98	95	91	89	90	87	84	82	72	71	69	59	58	57	47	46	46	40				
2	91	85	80	76	84	79	74	71	66	63	61	55	53	51	44	43	42	37				
3	85	77	71	66	78	71	66	62	61	57	54	51	48	46	41	40	39	35				
4	79	70	64	59	73	65	60	55	56	52	49	47	44	42	39	37	36	32				
5	74	64	57	52	68	60	54	50	52	47	44	44	41	39	37	35	33	30				
6	69	59	52	47	64	55	49	45	48	43	40	41	38	36	35	33	31	28				
7	65	54	48	43	60	51	45	41	44	40	37	38	35	33	33	31	29	27				
8	61	50	44	39	56	47	42	38	42	37	34	36	33	31	31	29	27	25				
9	57	47	41	36	53	44	39	35	39	35	32	34	31	29	29	27	26	24				
10	54	44	38	33	50	41	36	32	37	32	29	32	29	27	28	26	24	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	128719	128719	128719	128719
5°	124282	124420	124282	124420
10°	107424	107680	107424	107680
15°	85483	83119	85483	83119
20°	60725	60361	60725	60361
25°	43689	42529	43689	42529
30°	33381	32406	33381	32406
35°	26203	25089	26203	25089
40°	19852	18630	19852	18630
45°	11108	9914	11108	9914
50°	3908	3446	3908	3446
55°	2390	2269	2390	2269
60°	1828	1689	1828	1689
65°	1673	1566	1673	1566
70°	1600	1468	1600	1468
75°	1497	1410	1497	1410
80°	1311	1311	1311	1311
85°	1315	1056	1315	1056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 13173 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.0	6.4
10°-20°	1375.4	12.7
20°-30°	1139.0	10.6
30°-40°	819.4	7.6
40°-50°	417.4	3.9
50°-60°	108.5	1.0
60°-70°	45.1	0.4
70°-80°	25.0	0.2
80°-90°	16.1	0.1
90°-100°	167.6	1.6
100°-110°	488.9	4.5
110°-120°	797.8	7.4
120°-130°	1012.4	9.4
130°-140°	1083.3	10.0
140°-150°	1011.5	9.4
150°-160°	832.4	7.7
160°-170°	558.2	5.2
170°-180°	198.2	1.8
0°-30°	3206.5	29.7
0°-40°	4025.9	37.3
0°-60°	4551.9	42.2
0°-90°	4638.1	43.0
90°-120°	1454.3	13.5
90°-150°	4561.5	42.3
90°-180°	6150.0	57.0
0°-180°	10788.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7972	7972	7972	7972	7972	
5°	7668	7677	7668	7677	7668	692
15°	5114	4973	5114	4973	5114	1388
25°	2452	2387	2452	2387	2452	1153
35°	1329	1273	1329	1273	1329	834
45°	486	434	486	434	486	389
55°	85	81	85	81	85	83
65°	44	41	44	41	44	44
75°	24	23	24	23	24	25
85°	7	6	7	6	7	8
90°	6	47	6	92	6	5
95°	66	49	66	287	66	80
105°	311	498	311	685	311	330
115°	596	826	596	1017	596	587
125°	881	1308	881	1247	881	788
135°	1198	1713	1198	1381	1198	926
145°	1530	1974	1530	1411	1530	957
155°	1817	2145	1817	1464	1817	835
165°	2008	2236	2008	1685	2008	565
175°	2100	2189	2100	1977	2100	199
180°	2106	2106	2106	2106	2106	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4
2.5°	7959.9	7953.9	7947.9	7921.1	7887.4	7884.6	7912.8	7932.1	7925.1	7918.1	7925.1
5°	7668.3	7663.3	7658.2	7635.3	7606.4	7616.4	7665.5	7699.4	7688.1	7676.8	7688.1
7.5°	7066.1	7070.4	7074.6	7062.9	7045.8	7058.9	7102.3	7131.8	7119.7	7107.7	7119.7
10°	6552.4	6563.7	6575.0	6559.0	6533.9	6553.0	6616.5	6653.5	6610.7	6568.0	6610.7
12.5°	5985.6	5978.3	5971.0	5956.3	5939.2	5935.8	5946.0	5947.7	5924.1	5900.4	5924.1
15°	5114.1	5087.7	5061.3	5020.7	4975.5	4960.7	4976.4	4986.5	4979.6	4972.7	4979.6
17.5°	4119.3	4129.5	4139.6	4112.2	4072.2	4051.5	4050.0	4046.9	4039.1	4031.3	4039.1
20°	3534.3	3537.5	3540.6	3523.5	3499.6	3493.9	3506.5	3515.6	3514.4	3513.1	3514.4
22.5°	3063.6	3064.3	3064.9	3042.2	3011.8	3005.9	3024.5	3035.6	3024.3	3013.0	3024.3
25°	2452.4	2450.5	2448.6	2433.5	2414.0	2399.6	2390.2	2383.6	2385.4	2387.3	2385.4
27.5°	2011.1	2003.3	1995.5	1982.6	1968.1	1963.9	1970.2	1973.8	1969.1	1964.5	1969.1
30°	1790.5	1784.2	1777.9	1765.0	1750.0	1744.3	1748.1	1749.5	1743.8	1738.2	1743.8
32.5°	1592.5	1592.7	1593.0	1581.4	1565.8	1557.1	1555.3	1553.0	1548.8	1544.7	1548.8
35°	1329.4	1333.2	1337.0	1327.5	1313.7	1302.1	1292.7	1284.2	1278.5	1272.9	1278.5
37.5°	1094.7	1098.2	1101.7	1093.8	1082.1	1069.4	1055.5	1044.0	1039.2	1034.4	1039.2
40°	941.9	944.4	946.9	941.4	933.3	921.0	904.7	891.5	887.7	883.9	887.7
42.5°	775.6	786.2	796.7	793.2	785.1	773.3	758.0	744.4	736.1	727.8	736.1
45°	486.5	519.8	553.1	568.1	576.9	572.8	555.8	531.0	482.6	434.2	482.6
47.5°	246.1	292.2	338.4	371.5	400.3	391.1	344.0	296.7	249.2	201.7	249.2
50°	155.6	187.6	219.7	260.2	303.6	294.2	231.9	179.9	158.6	137.2	158.6
52.5°	119.4	135.8	152.3	190.8	236.7	232.3	177.6	133.7	121.8	110.0	121.8
55°	84.9	91.1	97.4	118.8	145.2	143.6	114.1	90.7	85.6	80.6	85.6
57.5°	65.6	69.1	72.7	80.6	90.0	89.2	78.0	68.8	65.7	62.5	65.7
60°	56.6	59.1	61.6	65.5	69.9	69.3	63.6	58.6	55.5	52.3	55.5
62.5°	50.9	52.4	53.9	55.7	57.6	56.7	53.1	50.1	48.9	47.8	48.9
65°	43.8	44.5	45.1	45.3	45.3	44.6	43.4	42.3	41.6	41.0	41.6
67.5°	37.3	38.0	38.6	38.7	38.5	38.2	37.5	36.9	36.3	35.6	36.3
70°	33.9	34.6	35.2	34.9	34.3	33.6	33.0	32.4	31.7	31.1	31.7
72.5°	29.4	30.0	30.7	30.4	29.7	29.4	29.2	29.0	28.3	27.7	28.3
75°	24.0	24.0	24.0	24.0	24.0	23.7	23.1	22.6	22.6	22.6	22.6
77.5°	18.7	18.8	18.9	18.5	17.9	17.5	17.5	17.4	16.9	16.4	16.9
80°	14.1	14.8	15.4	15.1	14.5	14.1	14.1	14.1	14.1	14.1	14.1
82.5°	11.9	12.0	12.1	11.7	11.1	10.7	10.7	10.7	10.7	10.7	10.7
85°	7.1	7.1	7.1	6.6	6.0	6.0	6.6	6.9	6.3	5.7	6.3
87.5°	3.5	5.2	7.4	9.1	10.3	10.8	10.8	11.2	11.6	11.6	11.6
90°	6.4	14.9	25.5	34.0	40.4	42.6	42.6	44.7	46.8	46.8	46.8
92.5°	23.4	37.0	37.4	37.4	45.5	49.4	52.8	53.2	55.3	55.3	55.3
95°	66.0	72.3	108.5	106.4	72.3	57.4	48.9	48.9	48.9	48.9	48.9
97.5°	126.0	135.3	141.3	189.4	200.0	193.2	157.4	132.3	118.3	111.9	118.3
100°	178.7	183.0	195.7	197.9	251.1	302.1	276.6	244.7	234.0	227.7	234.0
102.5°	231.5	234.0	253.6	262.6	274.9	303.8	392.3	382.6	375.3	374.0	375.3
105°	310.6	312.8	348.9	366.0	374.5	374.5	372.3	414.9	483.0	497.9	483.0
107.5°	395.3	405.1	447.7	493.2	503.0	505.5	494.5	488.1	485.5	487.2	485.5
110°	453.2	468.1	519.2	576.6	591.5	595.8	591.5	585.1	580.9	580.9	580.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	509.4	531.1	588.9	654.9	680.0	692.8	683.4	678.7	674.5	677.9	674.5
115°	595.8	627.7	704.3	772.3	823.4	829.8	827.7	827.7	825.5	825.5	825.5
117.5°	675.8	726.8	812.8	891.9	951.1	968.1	976.6	974.1	971.5	975.8	971.5
120°	731.9	791.5	889.4	978.7	1036.2	1061.7	1070.2	1066.0	1070.2	1066.0	1070.2
122.5°	791.5	864.7	960.9	1053.6	1121.3	1150.2	1160.4	1161.3	1162.1	1159.6	1162.1
125°	880.9	970.2	1083.0	1178.7	1248.9	1283.0	1291.5	1293.6	1297.9	1308.5	1297.9
127.5°	971.1	1072.4	1196.2	1288.5	1360.4	1401.7	1414.9	1419.6	1428.5	1433.2	1428.5
130°	1034.1	1148.9	1274.5	1361.7	1431.9	1476.6	1500.0	1506.4	1517.0	1514.9	1517.0
132.5°	1100.4	1220.4	1347.7	1438.3	1503.4	1551.5	1571.5	1589.8	1593.6	1596.6	1593.6
135°	1197.9	1327.7	1455.3	1544.7	1606.4	1653.2	1678.7	1695.8	1706.4	1712.8	1706.4
137.5°	1300.4	1437.5	1560.0	1639.6	1701.7	1742.1	1771.1	1789.0	1800.0	1805.1	1800.0
140°	1370.2	1502.1	1621.3	1704.3	1759.6	1800.0	1825.5	1846.8	1859.6	1859.6	1859.6
142.5°	1436.6	1566.8	1682.6	1765.5	1814.1	1851.1	1878.3	1894.5	1909.0	1909.0	1909.0
145°	1529.8	1659.6	1766.0	1849.0	1889.4	1923.4	1953.2	1966.0	1974.5	1974.5	1974.5
147.5°	1627.2	1742.1	1839.2	1918.7	1952.8	1992.8	2016.2	2026.4	2037.0	2032.4	2037.0
150°	1685.1	1791.5	1885.1	1959.6	1993.6	2031.9	2055.3	2063.8	2074.5	2068.1	2074.5
152.5°	1741.3	1842.6	1927.7	1997.0	2026.0	2064.3	2091.1	2099.6	2106.8	2102.1	2106.8
155°	1817.0	1906.4	1985.1	2049.0	2074.5	2110.7	2136.2	2146.8	2155.3	2144.7	2155.3
157.5°	1884.7	1961.7	2030.2	2089.0	2116.2	2147.3	2171.1	2184.3	2192.8	2188.1	2192.8
160°	1925.6	1995.8	2057.5	2112.8	2138.3	2166.0	2191.5	2206.4	2214.9	2208.5	2214.9
162.5°	1959.6	2023.0	2081.3	2131.5	2153.6	2177.9	2208.5	2221.7	2230.2	2222.1	2230.2
165°	2008.5	2059.6	2110.7	2153.2	2172.4	2191.5	2223.4	2238.3	2244.7	2236.2	2244.7
167.5°	2045.6	2084.7	2126.0	2162.6	2176.6	2195.3	2227.3	2239.6	2247.7	2237.0	2247.7
170°	2066.0	2100.0	2136.2	2166.0	2176.6	2193.6	2225.6	2236.2	2242.6	2231.9	2242.6
172.5°	2083.0	2108.5	2137.9	2164.3	2169.8	2183.4	2213.6	2224.3	2229.0	2220.0	2229.0
175°	2100.0	2114.9	2136.2	2153.2	2151.1	2159.6	2185.1	2193.6	2202.1	2189.4	2202.1
177.5°	2108.1	2114.9	2121.7	2131.9	2125.1	2125.1	2143.9	2149.0	2150.7	2143.9	2150.7
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4
2.5°	7932.1	7912.8	7884.6	7887.4	7921.1	7947.9	7953.9	7959.9	7953.9	7947.9	7921.1
5°	7699.4	7665.5	7616.4	7606.4	7635.3	7658.2	7663.3	7668.3	7663.3	7658.2	7635.3
7.5°	7131.8	7102.3	7058.9	7045.8	7062.9	7074.6	7070.4	7066.1	7070.4	7074.6	7062.9
10°	6653.5	6616.5	6553.0	6533.9	6559.0	6575.0	6563.7	6552.4	6563.7	6575.0	6559.0
12.5°	5947.7	5946.0	5935.8	5939.2	5956.3	5971.0	5978.3	5985.6	5978.3	5971.0	5956.3
15°	4986.5	4976.4	4960.7	4975.5	5020.7	5061.3	5087.7	5114.1	5087.7	5061.3	5020.7
17.5°	4046.9	4050.0	4051.5	4072.2	4112.2	4139.6	4129.5	4119.3	4129.5	4139.6	4112.2
20°	3515.6	3506.5	3493.9	3499.6	3523.5	3540.6	3537.5	3534.3	3537.5	3540.6	3523.5
22.5°	3035.6	3024.5	3005.9	3011.8	3042.2	3064.9	3064.3	3063.6	3064.3	3064.9	3042.2
25°	2383.6	2390.2	2399.6	2414.0	2433.5	2448.6	2450.5	2452.4	2450.5	2448.6	2433.5
27.5°	1973.8	1970.2	1963.9	1968.1	1982.6	1995.5	2003.3	2011.1	2003.3	1995.5	1982.6
30°	1749.5	1748.1	1744.3	1750.0	1765.0	1777.9	1784.2	1790.5	1784.2	1777.9	1765.0
32.5°	1553.0	1555.3	1557.1	1565.8	1581.4	1593.0	1592.7	1592.5	1592.7	1593.0	1581.4
35°	1284.2	1292.7	1302.1	1313.7	1327.5	1337.0	1333.2	1329.4	1333.2	1337.0	1327.5
37.5°	1044.0	1055.5	1069.4	1082.1	1093.8	1101.7	1098.2	1094.7	1098.2	1101.7	1093.8
40°	891.5	904.7	921.0	933.3	941.4	946.9	944.4	941.9	944.4	946.9	941.4
42.5°	744.4	758.0	773.3	785.1	793.2	796.7	786.2	775.6	786.2	796.7	793.2
45°	531.0	555.8	572.8	576.9	568.1	553.1	519.8	486.5	519.8	553.1	568.1
47.5°	296.7	344.0	391.1	400.3	371.5	338.4	292.2	246.1	292.2	338.4	371.5
50°	179.9	231.9	294.2	303.6	260.2	219.7	187.6	155.6	187.6	219.7	260.2
52.5°	133.7	177.6	232.3	236.7	190.8	152.3	135.8	119.4	135.8	152.3	190.8
55°	90.7	114.1	143.6	145.2	118.8	97.4	91.1	84.9	91.1	97.4	118.8
57.5°	68.8	78.0	89.2	90.0	80.6	72.7	69.1	65.6	69.1	72.7	80.6
60°	58.6	63.6	69.3	69.9	65.5	61.6	59.1	56.6	59.1	61.6	65.5
62.5°	50.1	53.1	56.7	57.6	55.7	53.9	52.4	50.9	52.4	53.9	55.7
65°	42.3	43.4	44.6	45.3	45.3	45.1	44.5	43.8	44.5	45.1	45.3
67.5°	36.9	37.5	38.2	38.5	38.7	38.6	38.0	37.3	38.0	38.6	38.7
70°	32.4	33.0	33.6	34.3	34.9	35.2	34.6	33.9	34.6	35.2	34.9
72.5°	29.0	29.2	29.4	29.7	30.4	30.7	30.0	29.4	30.0	30.7	30.4
75°	22.6	23.1	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
77.5°	17.4	17.5	17.5	17.9	18.5	18.9	18.8	18.7	18.8	18.9	18.5
80°	14.1	14.1	14.1	14.5	15.1	15.4	14.8	14.1	14.8	15.4	15.1
82.5°	10.7	10.7	10.7	11.1	11.7	12.1	12.0	11.9	12.0	12.1	11.7
85°	6.9	6.6	6.0	6.0	6.6	7.1	7.1	7.1	7.1	7.1	6.6
87.5°	11.2	10.8	10.8	10.3	9.1	7.4	5.2	3.5	5.2	6.9	9.9
90°	44.7	42.6	42.6	40.4	34.0	25.5	14.9	6.4	14.9	23.4	38.3
92.5°	53.2	52.8	49.4	45.5	37.4	37.4	37.0	23.4	40.4	57.4	82.6
95°	48.9	48.9	57.4	72.3	106.4	108.5	72.3	66.0	93.6	131.9	166.0
97.5°	132.3	157.4	193.2	200.0	189.4	141.3	135.3	126.0	171.5	209.4	264.3
100°	244.7	276.6	302.1	251.1	197.9	195.7	183.0	178.7	227.7	263.8	317.0
102.5°	382.6	392.3	303.8	274.9	262.6	253.6	234.0	231.5	280.4	330.2	374.9
105°	414.9	372.3	374.5	374.5	366.0	348.9	312.8	310.6	366.0	423.4	478.7
107.5°	488.1	494.5	505.5	503.0	493.2	447.7	405.1	395.3	445.1	514.0	574.9
110°	585.1	591.5	595.8	591.5	576.6	519.2	468.1	453.2	497.9	570.2	636.2



TEST NUMBER: P1428655

CATALOG NUMBER: SQ2W-WBN-K-150U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	678.7	683.4	692.8	680.0	654.9	588.9	531.1	509.4	554.0	628.1	695.8
115°	827.7	827.7	829.8	823.4	772.3	704.3	627.7	595.8	634.0	702.1	776.6
117.5°	974.1	976.6	968.1	951.1	891.9	812.8	726.8	675.8	706.0	777.9	854.5
120°	1066.0	1070.2	1061.7	1036.2	978.7	889.4	791.5	731.9	755.3	825.5	902.1
122.5°	1161.3	1160.4	1150.2	1121.3	1053.6	960.9	864.7	791.5	801.3	866.4	941.3
125°	1293.6	1291.5	1283.0	1248.9	1178.7	1083.0	970.2	880.9	868.1	923.4	1000.0
127.5°	1419.6	1414.9	1401.7	1360.4	1288.5	1196.2	1072.4	971.1	942.6	977.5	1047.7
130°	1506.4	1500.0	1476.6	1431.9	1361.7	1274.5	1148.9	1034.1	993.6	1014.9	1076.6
132.5°	1589.8	1571.5	1551.5	1503.4	1438.3	1347.7	1220.4	1100.4	1044.7	1054.1	1102.1
135°	1695.8	1678.7	1653.2	1606.4	1544.7	1455.3	1327.7	1197.9	1121.3	1112.8	1140.4
137.5°	1789.0	1771.1	1742.1	1701.7	1639.6	1560.0	1437.5	1300.4	1203.8	1175.3	1186.0
140°	1846.8	1825.5	1800.0	1759.6	1704.3	1621.3	1502.1	1370.2	1261.7	1221.3	1214.9
142.5°	1894.5	1878.3	1851.1	1814.1	1765.5	1682.6	1566.8	1436.6	1321.3	1268.9	1254.1
145°	1966.0	1953.2	1923.4	1889.4	1849.0	1766.0	1659.6	1529.8	1414.9	1346.8	1314.9
147.5°	2026.4	2016.2	1992.8	1952.8	1918.7	1839.2	1742.1	1627.2	1509.4	1425.1	1383.8
150°	2063.8	2055.3	2031.9	1993.6	1959.6	1885.1	1791.5	1685.1	1572.4	1483.0	1429.8
152.5°	2099.6	2091.1	2064.3	2026.0	1997.0	1927.7	1842.6	1741.3	1626.8	1537.5	1482.6
155°	2146.8	2136.2	2110.7	2074.5	2049.0	1985.1	1906.4	1817.0	1719.2	1625.5	1563.8
157.5°	2184.3	2171.1	2147.3	2116.2	2089.0	2030.2	1961.7	1884.7	1799.2	1709.8	1646.8
160°	2206.4	2191.5	2166.0	2138.3	2112.8	2057.5	1995.8	1925.6	1846.8	1766.0	1697.9
162.5°	2221.7	2208.5	2177.9	2153.6	2131.5	2081.3	2023.0	1959.6	1889.4	1818.7	1755.8
165°	2238.3	2223.4	2191.5	2172.4	2153.2	2110.7	2059.6	2008.5	1949.0	1891.5	1840.4
167.5°	2239.6	2227.3	2195.3	2176.6	2162.6	2126.0	2084.7	2045.6	1999.2	1954.1	1911.5
170°	2236.2	2225.6	2193.6	2176.6	2166.0	2136.2	2100.0	2066.0	2029.8	1991.5	1957.5
172.5°	2224.3	2213.6	2183.4	2169.8	2164.3	2137.9	2108.5	2083.0	2051.9	2023.8	1996.6
175°	2193.6	2185.1	2159.6	2151.1	2153.2	2136.2	2114.9	2100.0	2080.9	2063.8	2049.0
177.5°	2149.0	2143.9	2125.1	2125.1	2131.9	2121.7	2114.9	2108.1	2099.6	2094.5	2089.4
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4
2.5°	7887.4	7884.6	7912.8	7932.1	7925.1	7918.1	7925.1	7932.1	7912.8	7884.6	7887.4
5°	7606.4	7616.4	7665.5	7699.4	7688.1	7676.8	7688.1	7699.4	7665.5	7616.4	7606.4
7.5°	7045.8	7058.9	7102.3	7131.8	7119.7	7107.7	7119.7	7131.8	7102.3	7058.9	7045.8
10°	6533.9	6553.0	6616.5	6653.5	6610.7	6568.0	6610.7	6653.5	6616.5	6553.0	6533.9
12.5°	5939.2	5935.8	5946.0	5947.7	5924.1	5900.4	5924.1	5947.7	5946.0	5935.8	5939.2
15°	4975.5	4960.7	4976.4	4986.5	4979.6	4972.7	4979.6	4986.5	4976.4	4960.7	4975.5
17.5°	4072.2	4051.5	4050.0	4046.9	4039.1	4031.3	4039.1	4046.9	4050.0	4051.5	4072.2
20°	3499.6	3493.9	3506.5	3515.6	3514.4	3513.1	3514.4	3515.6	3506.5	3493.9	3499.6
22.5°	3011.8	3005.9	3024.5	3035.6	3024.3	3013.0	3024.3	3035.6	3024.5	3005.9	3011.8
25°	2414.0	2399.6	2390.2	2383.6	2385.4	2387.3	2385.4	2383.6	2390.2	2399.6	2414.0
27.5°	1968.1	1963.9	1970.2	1973.8	1969.1	1964.5	1969.1	1973.8	1970.2	1963.9	1968.1
30°	1750.0	1744.3	1748.1	1749.5	1743.8	1738.2	1743.8	1749.5	1748.1	1744.3	1750.0
32.5°	1565.8	1557.1	1555.3	1553.0	1548.8	1544.7	1548.8	1553.0	1555.3	1557.1	1565.8
35°	1313.7	1302.1	1292.7	1284.2	1278.5	1272.9	1278.5	1284.2	1292.7	1302.1	1313.7
37.5°	1082.1	1069.4	1055.5	1044.0	1039.2	1034.4	1039.2	1044.0	1055.5	1069.4	1082.1
40°	933.3	921.0	904.7	891.5	887.7	883.9	887.7	891.5	904.7	921.0	933.3
42.5°	785.1	773.3	758.0	744.4	736.1	727.8	736.1	744.4	758.0	773.3	785.1
45°	576.9	572.8	555.8	531.0	482.6	434.2	482.6	531.0	555.8	572.8	576.9
47.5°	400.3	391.1	344.0	296.7	249.2	201.7	249.2	296.7	344.0	391.1	400.3
50°	303.6	294.2	231.9	179.9	158.6	137.2	158.6	179.9	231.9	294.2	303.6
52.5°	236.7	232.3	177.6	133.7	121.8	110.0	121.8	133.7	177.6	232.3	236.7
55°	145.2	143.6	114.1	90.7	85.6	80.6	85.6	90.7	114.1	143.6	145.2
57.5°	90.0	89.2	78.0	68.8	65.7	62.5	65.7	68.8	78.0	89.2	90.0
60°	69.9	69.3	63.6	58.6	55.5	52.3	55.5	58.6	63.6	69.3	69.9
62.5°	57.6	56.7	53.1	50.1	48.9	47.8	48.9	50.1	53.1	56.7	57.6
65°	45.3	44.6	43.4	42.3	41.6	41.0	41.6	42.3	43.4	44.6	45.3
67.5°	38.5	38.2	37.5	36.9	36.3	35.6	36.3	36.9	37.5	38.2	38.5
70°	34.3	33.6	33.0	32.4	31.7	31.1	31.7	32.4	33.0	33.6	34.3
72.5°	29.7	29.4	29.2	29.0	28.3	27.7	28.3	29.0	29.2	29.4	29.7
75°	24.0	23.7	23.1	22.6	22.6	22.6	22.6	22.6	23.1	23.7	24.0
77.5°	17.9	17.5	17.5	17.4	16.9	16.4	16.9	17.4	17.5	17.5	17.9
80°	14.5	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.5
82.5°	11.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	11.1
85°	6.0	6.0	6.6	6.9	6.3	5.7	6.3	6.9	6.6	6.0	6.0
87.5°	12.1	15.0	18.0	19.7	21.4	20.6	21.4	19.7	18.0	15.0	12.1
90°	48.9	63.8	78.7	87.2	95.7	91.5	95.7	87.2	78.7	63.8	48.9
92.5°	98.3	123.4	141.7	157.0	163.8	163.0	163.8	157.0	141.7	123.4	98.3
95°	197.9	227.7	257.4	278.7	291.5	287.2	291.5	278.7	257.4	227.7	197.9
97.5°	305.1	345.1	378.3	398.3	411.1	419.6	411.1	398.3	378.3	345.1	305.1
100°	376.6	414.9	453.2	476.6	497.9	506.4	497.9	476.6	453.2	414.9	376.6
102.5°	434.5	484.7	526.4	551.5	569.4	577.9	569.4	551.5	526.4	484.7	434.5
105°	529.8	583.0	627.7	659.6	678.7	685.1	678.7	659.6	627.7	583.0	529.8
107.5°	625.1	680.0	721.3	756.6	780.0	793.6	780.0	756.6	721.3	680.0	625.1
110°	700.0	744.7	789.4	821.3	844.7	853.2	844.7	821.3	789.4	744.7	700.0



TEST NUMBER: P1428655

CATALOG NUMBER: SQ2W-WBN-K-150U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	763.0	812.8	857.5	889.4	916.2	928.1	916.2	889.4	857.5	812.8	763.0
115°	851.1	917.0	957.5	987.2	1006.4	1017.0	1006.4	987.2	957.5	917.0	851.1
117.5°	924.3	993.2	1037.5	1060.4	1069.4	1077.0	1069.4	1060.4	1037.5	993.2	924.3
120°	970.2	1034.1	1085.1	1114.9	1125.5	1129.8	1125.5	1114.9	1085.1	1034.1	970.2
122.5°	1012.8	1073.2	1122.6	1159.2	1176.6	1180.9	1176.6	1159.2	1122.6	1073.2	1012.8
125°	1072.4	1129.8	1180.9	1217.0	1236.2	1246.8	1236.2	1217.0	1180.9	1129.8	1072.4
127.5°	1124.3	1186.4	1233.2	1266.0	1284.7	1293.2	1284.7	1266.0	1233.2	1186.4	1124.3
130°	1153.2	1217.0	1263.8	1300.0	1317.0	1325.5	1317.0	1300.0	1263.8	1217.0	1153.2
132.5°	1175.3	1242.6	1291.1	1323.8	1342.6	1351.1	1342.6	1323.8	1291.1	1242.6	1175.3
135°	1202.1	1272.4	1323.4	1355.3	1372.4	1380.9	1372.4	1355.3	1323.4	1272.4	1202.1
137.5°	1225.5	1289.4	1342.6	1376.2	1391.5	1397.0	1391.5	1376.2	1342.6	1289.4	1225.5
140°	1242.6	1297.9	1351.1	1383.0	1400.0	1402.1	1400.0	1383.0	1351.1	1297.9	1242.6
142.5°	1264.7	1308.1	1354.5	1386.4	1403.4	1407.2	1403.4	1386.4	1354.5	1308.1	1264.7
145°	1304.3	1329.8	1361.7	1391.5	1406.4	1410.7	1406.4	1391.5	1361.7	1329.8	1304.3
147.5°	1354.1	1362.1	1378.7	1398.3	1412.8	1415.8	1412.8	1398.3	1378.7	1362.1	1354.1
150°	1391.5	1389.4	1395.8	1408.5	1421.3	1419.2	1421.3	1408.5	1395.8	1389.4	1391.5
152.5°	1434.1	1421.7	1421.3	1427.2	1433.2	1432.8	1433.2	1427.2	1421.3	1421.7	1434.1
155°	1506.4	1483.0	1470.2	1466.0	1466.0	1463.8	1466.0	1466.0	1470.2	1483.0	1506.4
157.5°	1586.0	1553.2	1534.1	1523.8	1520.9	1516.2	1520.9	1523.8	1534.1	1553.2	1586.0
160°	1640.4	1604.3	1585.1	1568.1	1561.7	1555.3	1561.7	1568.1	1585.1	1604.3	1640.4
162.5°	1691.5	1657.0	1636.2	1620.9	1614.5	1604.7	1614.5	1620.9	1636.2	1657.0	1691.5
165°	1774.5	1738.3	1714.9	1702.1	1693.6	1685.1	1693.6	1702.1	1714.9	1738.3	1774.5
167.5°	1857.5	1817.9	1802.6	1788.1	1780.0	1764.7	1780.0	1788.1	1802.6	1817.9	1857.5
170°	1908.5	1872.4	1863.8	1851.1	1836.2	1819.2	1836.2	1851.1	1863.8	1872.4	1908.5
172.5°	1952.8	1928.5	1920.0	1907.3	1902.6	1889.0	1902.6	1907.3	1920.0	1928.5	1952.8
175°	2017.0	1997.9	1997.9	1995.8	1989.4	1976.6	1989.4	1995.8	1997.9	1997.9	2017.0
177.5°	2070.7	2060.4	2067.3	2067.3	2065.6	2053.6	2065.6	2067.3	2067.3	2060.4	2070.7
180°	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4	2106.4



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CATALOG NUMBER: SQ2W-WBN-K-150U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	7972.4	7972.4	7972.4	7972.4
2.5°	7921.1	7947.9	7953.9	7959.9
5°	7635.3	7658.2	7663.3	7668.3
7.5°	7062.9	7074.6	7070.4	7066.1
10°	6559.0	6575.0	6563.7	6552.4
12.5°	5956.3	5971.0	5978.3	5985.6
15°	5020.7	5061.3	5087.7	5114.1
17.5°	4112.2	4139.6	4129.5	4119.3
20°	3523.5	3540.6	3537.5	3534.3
22.5°	3042.2	3064.9	3064.3	3063.6
25°	2433.5	2448.6	2450.5	2452.4
27.5°	1982.6	1995.5	2003.3	2011.1
30°	1765.0	1777.9	1784.2	1790.5
32.5°	1581.4	1593.0	1592.7	1592.5
35°	1327.5	1337.0	1333.2	1329.4
37.5°	1093.8	1101.7	1098.2	1094.7
40°	941.4	946.9	944.4	941.9
42.5°	793.2	796.7	786.2	775.6
45°	568.1	553.1	519.8	486.5
47.5°	371.5	338.4	292.2	246.1
50°	260.2	219.7	187.6	155.6
52.5°	190.8	152.3	135.8	119.4
55°	118.8	97.4	91.1	84.9
57.5°	80.6	72.7	69.1	65.6
60°	65.5	61.6	59.1	56.6
62.5°	55.7	53.9	52.4	50.9
65°	45.3	45.1	44.5	43.8
67.5°	38.7	38.6	38.0	37.3
70°	34.9	35.2	34.6	33.9
72.5°	30.4	30.7	30.0	29.4
75°	24.0	24.0	24.0	24.0
77.5°	18.5	18.9	18.8	18.7
80°	15.1	15.4	14.8	14.1
82.5°	11.7	12.1	12.0	11.9
85°	6.6	7.1	7.1	7.1
87.5°	9.9	6.9	5.2	3.5
90°	38.3	23.4	14.9	6.4
92.5°	82.6	57.4	40.4	23.4
95°	166.0	131.9	93.6	66.0
97.5°	264.3	209.4	171.5	126.0
100°	317.0	263.8	227.7	178.7
102.5°	374.9	330.2	280.4	231.5
105°	478.7	423.4	366.0	310.6
107.5°	574.9	514.0	445.1	395.3
110°	636.2	570.2	497.9	453.2



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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	695.8	628.1	554.0	509.4
115°	776.6	702.1	634.0	595.8
117.5°	854.5	777.9	706.0	675.8
120°	902.1	825.5	755.3	731.9
122.5°	941.3	866.4	801.3	791.5
125°	1000.0	923.4	868.1	880.9
127.5°	1047.7	977.5	942.6	971.1
130°	1076.6	1014.9	993.6	1034.1
132.5°	1102.1	1054.1	1044.7	1100.4
135°	1140.4	1112.8	1121.3	1197.9
137.5°	1186.0	1175.3	1203.8	1300.4
140°	1214.9	1221.3	1261.7	1370.2
142.5°	1254.1	1268.9	1321.3	1436.6
145°	1314.9	1346.8	1414.9	1529.8
147.5°	1383.8	1425.1	1509.4	1627.2
150°	1429.8	1483.0	1572.4	1685.1
152.5°	1482.6	1537.5	1626.8	1741.3
155°	1563.8	1625.5	1719.2	1817.0
157.5°	1646.8	1709.8	1799.2	1884.7
160°	1697.9	1766.0	1846.8	1925.6
162.5°	1755.8	1818.7	1889.4	1959.6
165°	1840.4	1891.5	1949.0	2008.5
167.5°	1911.5	1954.1	1999.2	2045.6
170°	1957.5	1991.5	2029.8	2066.0
172.5°	1996.6	2023.8	2051.9	2083.0
175°	2049.0	2063.8	2080.9	2100.0
177.5°	2089.4	2094.5	2099.6	2108.1
180°	2106.4	2106.4	2106.4	2106.4



TEST NUMBER: P1428655
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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	2.32	2.97	3.37	4.00	5.39	1.94	2.60	2.99	3.63	5.01
	3H	3.54	4.12	4.60	5.16	6.57	3.14	3.73	4.21	4.77	6.17
	4H	4.05	4.61	5.13	5.65	7.06	3.66	4.21	4.73	5.25	6.66
	6H	4.41	4.91	5.48	5.96	7.38	3.98	4.49	5.06	5.54	6.96
	8H	4.55	5.03	5.63	6.09	7.50	4.12	4.60	5.20	5.66	7.07
	12H	4.64	5.10	5.73	6.15	7.59	4.19	4.65	5.28	5.70	7.13
4H	2H	2.63	3.18	3.71	4.23	5.63	2.32	2.87	3.40	3.91	5.32
	3H	4.13	4.58	5.21	5.65	7.07	3.78	4.24	4.86	5.31	6.73
	4H	4.77	5.19	5.85	6.25	7.69	4.41	4.83	5.50	5.89	7.34
	6H	5.26	5.61	6.35	6.70	8.13	4.87	5.23	5.96	6.31	7.75
	8H	5.47	5.80	6.56	6.88	8.33	5.06	5.39	6.15	6.47	7.92
	12H	5.60	5.90	6.71	6.99	8.45	5.17	5.47	6.28	6.56	8.01
8H	4H	4.93	5.26	6.02	6.34	7.79	4.61	4.94	5.70	6.02	7.47
	6H	5.56	5.84	6.68	6.95	8.40	5.21	5.48	6.32	6.60	8.04
	8H	5.88	6.12	7.00	7.22	8.69	5.49	5.73	6.61	6.83	8.30
	12H	6.11	6.32	7.23	7.41	8.92	5.69	5.90	6.81	7.00	8.50
12H	4H	4.91	5.20	6.01	6.29	7.75	4.60	4.90	5.71	5.99	7.44
	6H	5.60	5.84	6.72	6.94	8.41	5.26	5.49	6.37	6.59	8.06
	8H	5.95	6.15	7.07	7.25	8.76	5.57	5.78	6.69	6.88	8.38