

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: P1427890

Luminaire Tested: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427890
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

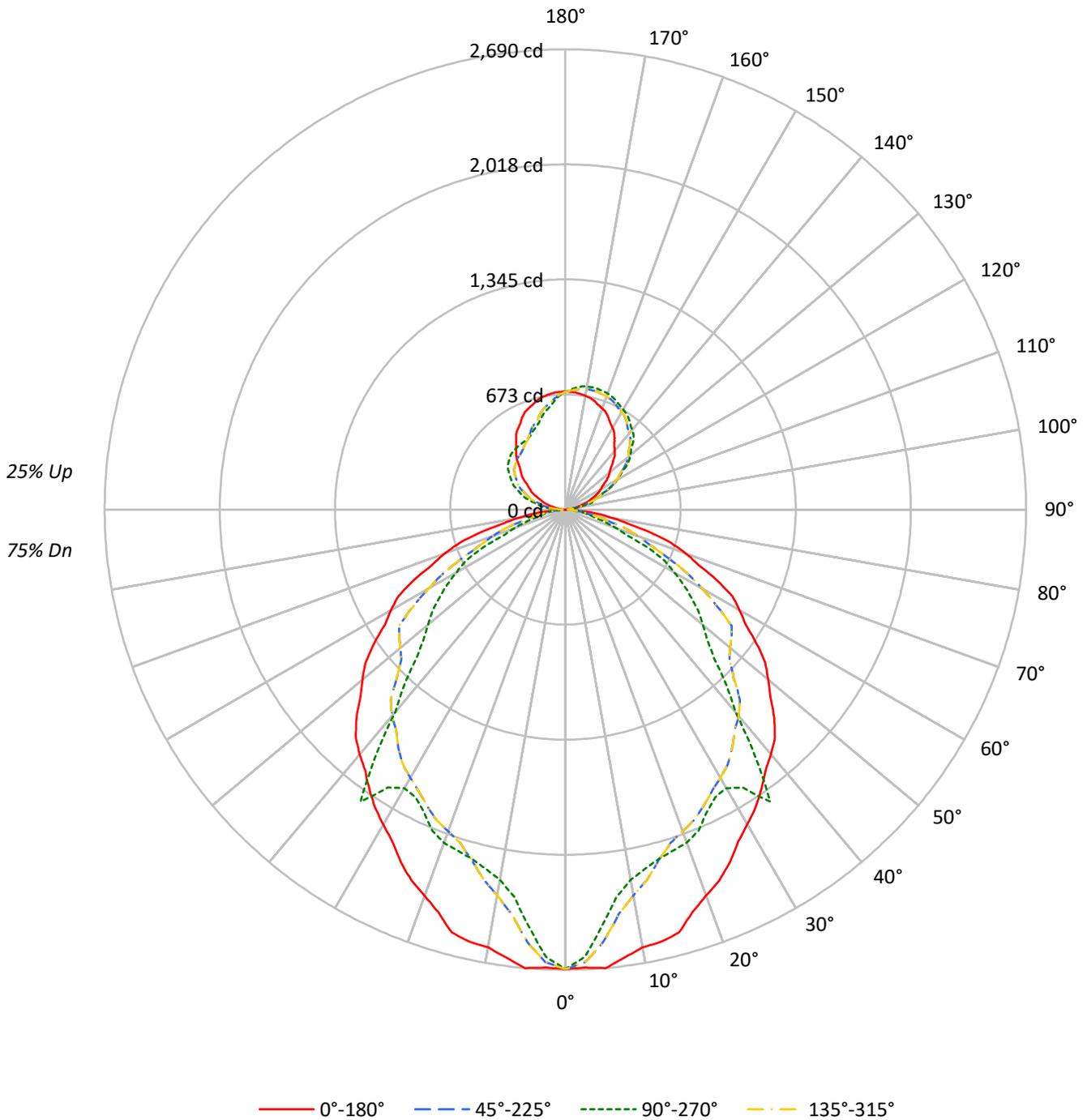
Lumens per Lamp: N/A
Luminaire Lumens: 7949.7 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.1
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64		
2	95	87	81	75	90	83	77	73	75	71	67	69	65	62	62	59	57	54		
3	86	77	69	63	82	73	66	61	67	61	57	61	56	53	55	52	49	46		
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	49	45	42	39		
5	73	61	52	46	69	58	51	45	53	47	42	49	44	39	45	40	37	34		
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	40	36	32	30		
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	32	29	27		
8	58	45	37	32	55	43	36	31	40	34	29	37	32	28	34	29	26	24		
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	31	27	23	22		
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	43348	43348	43348	43348
5°	43597	39622	43597	39622
10°	42593	36017	42593	36017
15°	42786	35312	42786	35312
20°	41259	35597	41259	35597
25°	40503	34769	40503	34769
30°	39624	35053	39624	35053
35°	39324	41086	39324	41086
40°	39358	32574	39358	32574
45°	39371	28055	39371	28055
50°	38820	26309	38820	26309
55°	38328	25241	38328	25241
60°	37945	23676	37945	23676
65°	37279	20592	37279	20592
70°	35211	14714	35211	14714
75°	31390	11154	31390	11154
80°	25653	10451	25653	10451
85°	16098	7095	16098	7095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39371 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.3	3.0
10°-20°	621.4	7.8
20°-30°	911.1	11.5
30°-40°	1103.2	13.9
40°-50°	1084.8	13.6
50°-60°	943.6	11.9
60°-70°	656.3	8.3
70°-80°	311.2	3.9
80°-90°	71.5	0.9
90°-100°	54.8	0.7
100°-110°	159.8	2.0
110°-120°	260.8	3.3
120°-130°	330.9	4.2
130°-140°	354.1	4.5
140°-150°	330.7	4.2
150°-160°	272.1	3.4
160°-170°	182.5	2.3
170°-180°	64.8	0.8
0°-30°	1768.7	22.2
0°-40°	2871.9	36.1
0°-60°	4900.3	61.6
0°-90°	5939.3	74.7
90°-120°	475.4	6.0
90°-150°	1491.1	18.8
90°-180°	2010.0	25.3
0°-180°	7949.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2685	2685	2685	2685	2685	
5°	2690	2445	2690	2445	2690	253
15°	2560	2113	2560	2113	2560	714
25°	2274	1952	2274	1952	2274	1046
35°	1995	2084	1995	2084	1995	1250
45°	1724	1229	1724	1229	1724	1325
55°	1362	897	1362	897	1362	1216
65°	976	539	976	539	976	959
75°	503	179	503	179	503	533
85°	87	38	87	38	87	116
90°	2	15	2	30	2	4
95°	22	16	22	94	22	26
105°	102	163	102	224	102	108
115°	195	270	195	332	195	192
125°	288	428	288	408	288	258
135°	392	560	392	451	392	303
145°	500	645	500	461	500	313
155°	594	701	594	478	594	273
165°	657	731	657	551	657	185
175°	686	716	686	646	686	65
180°	689	689	689	689	689	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2678.7	2691.4	2704.1	2686.2	2658.1	2638.5	2627.6	2619.0	2617.2	2615.4	2617.2
5°	2690.0	2688.8	2687.7	2634.6	2564.2	2511.4	2476.2	2449.3	2447.0	2444.7	2447.0
7.5°	2640.9	2605.7	2570.5	2499.2	2415.9	2354.8	2316.0	2286.4	2284.6	2282.8	2284.6
10°	2598.0	2544.6	2491.3	2410.7	2321.0	2258.5	2223.3	2196.9	2196.9	2196.9	2196.9
12.5°	2587.8	2503.5	2419.3	2331.0	2241.3	2183.4	2157.2	2139.0	2144.5	2149.9	2144.5
15°	2559.7	2432.5	2305.4	2215.7	2138.5	2096.4	2089.6	2087.6	2100.1	2112.6	2100.1
17.5°	2466.7	2329.8	2192.8	2114.0	2054.5	2032.0	2046.5	2061.1	2075.6	2090.1	2075.6
20°	2401.3	2266.2	2131.1	2058.1	2005.9	1993.4	2020.7	2044.5	2058.1	2071.8	2058.1
22.5°	2346.1	2209.2	2072.3	2007.7	1967.3	1962.1	1992.0	2016.3	2023.6	2030.9	2023.6
25°	2273.6	2119.2	1964.7	1917.6	1906.3	1913.7	1939.8	1958.5	1955.1	1951.7	1955.1
27.5°	2186.7	2025.5	1864.3	1834.0	1847.4	1862.1	1877.9	1890.4	1892.4	1894.5	1892.4
30°	2125.4	1964.2	1803.0	1778.8	1800.4	1819.1	1835.0	1850.6	1865.4	1880.2	1865.4
32.5°	2066.1	1899.5	1732.8	1715.5	1747.9	1783.0	1820.7	1857.5	1891.3	1925.1	1891.3
35°	1995.1	1821.4	1647.7	1634.1	1673.8	1724.9	1787.3	1862.0	1973.3	2084.5	1973.3
37.5°	1920.5	1734.3	1548.1	1541.9	1595.8	1649.6	1703.4	1752.6	1788.0	1823.4	1788.0
40°	1867.4	1672.1	1476.8	1476.5	1541.3	1608.2	1677.5	1709.0	1627.3	1545.5	1627.3
42.5°	1810.2	1614.9	1419.6	1413.9	1471.3	1545.1	1635.3	1668.4	1530.3	1392.2	1530.3
45°	1724.3	1521.1	1317.9	1310.5	1368.4	1409.3	1433.1	1426.3	1327.5	1228.7	1327.5
47.5°	1623.2	1429.5	1235.8	1234.2	1296.6	1301.2	1247.8	1198.1	1159.5	1120.9	1159.5
50°	1545.5	1362.7	1179.9	1187.9	1259.4	1252.6	1167.4	1097.3	1072.3	1047.4	1072.3
52.5°	1469.9	1296.2	1122.5	1143.6	1229.7	1216.0	1102.7	1013.5	996.7	979.9	996.7
55°	1361.6	1194.7	1027.8	1075.5	1194.7	1176.5	1021.0	903.5	900.1	896.7	900.1
57.5°	1246.6	1088.8	931.0	964.1	1060.8	1041.8	906.9	807.2	813.1	819.0	813.1
60°	1175.1	1021.8	868.6	872.8	929.6	911.4	818.3	746.8	740.0	733.2	740.0
62.5°	1099.5	953.5	807.5	786.3	806.7	785.4	722.3	673.2	666.4	659.6	666.4
65°	975.8	843.0	710.2	670.1	661.1	630.4	578.2	539.0	539.0	539.0	539.0
67.5°	839.9	724.1	608.3	563.5	542.4	512.0	472.3	435.6	408.4	381.1	408.4
70°	745.9	643.8	541.6	494.7	466.4	430.0	385.7	348.0	329.8	311.7	329.8
72.5°	645.8	558.1	470.5	422.5	387.8	352.4	316.3	284.0	263.1	242.2	263.1
75°	503.2	432.9	362.5	315.9	277.3	241.5	208.6	183.4	181.1	178.8	181.1
77.5°	363.8	312.5	261.1	223.4	190.3	165.4	148.8	136.5	136.7	136.9	136.7
80°	275.9	237.3	198.7	163.5	129.4	111.8	110.7	110.1	111.3	112.4	111.3
82.5°	194.1	165.5	136.9	114.4	94.0	84.6	86.2	87.4	87.6	87.9	87.6
85°	86.9	73.2	59.6	54.5	52.2	48.8	44.3	40.6	39.5	38.3	39.5
87.5°	18.8	18.5	18.2	16.5	14.2	13.0	13.0	13.1	13.3	13.3	13.3
90°	2.1	4.9	8.3	11.1	13.2	13.9	13.9	14.6	15.3	15.3	15.3
92.5°	7.7	12.1	12.2	12.2	14.9	16.1	17.2	17.4	18.1	18.1	18.1
95°	21.6	23.6	35.5	34.8	23.6	18.8	16.0	16.0	16.0	16.0	16.0
97.5°	41.2	44.2	46.2	61.9	65.4	63.2	51.5	43.3	38.7	36.6	38.7
100°	58.4	59.8	64.0	64.7	82.1	98.8	90.4	80.0	76.5	74.4	76.5
102.5°	75.7	76.5	82.9	85.8	89.9	99.3	128.3	125.1	122.7	122.3	122.7
105°	101.5	102.2	114.1	119.6	122.4	122.4	121.7	135.6	157.9	162.7	157.9
107.5°	129.2	132.4	146.3	161.2	164.4	165.3	161.6	159.5	158.7	159.3	158.7
110°	148.1	153.0	169.7	188.5	193.4	194.7	193.4	191.3	189.9	189.9	189.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	166.5	173.6	192.5	214.1	222.3	226.5	223.4	221.9	220.5	221.6	220.5
115°	194.7	205.2	230.2	252.5	269.2	271.2	270.6	270.6	269.9	269.9	269.9
117.5°	220.9	237.6	265.7	291.6	310.9	316.5	319.2	318.4	317.6	319.0	317.6
120°	239.3	258.7	290.7	319.9	338.7	347.1	349.8	348.4	349.8	348.4	349.8
122.5°	258.7	282.7	314.1	344.4	366.5	376.0	379.3	379.6	379.9	379.1	379.9
125°	287.9	317.2	354.0	385.3	408.3	419.4	422.2	422.9	424.3	427.7	424.3
127.5°	317.4	350.5	391.0	421.2	444.7	458.2	462.5	464.0	467.0	468.5	467.0
130°	338.0	375.6	416.6	445.1	468.1	482.7	490.3	492.4	495.9	495.2	495.9
132.5°	359.7	398.9	440.5	470.2	491.4	507.2	513.7	519.7	520.9	521.9	520.9
135°	391.6	434.0	475.7	504.9	525.1	540.4	548.8	554.3	557.8	559.9	557.8
137.5°	425.1	469.9	509.9	536.0	556.3	569.5	578.9	584.8	588.4	590.1	588.4
140°	447.9	491.0	530.0	557.1	575.2	588.4	596.7	603.7	607.9	607.9	607.9
142.5°	469.6	512.2	550.0	577.1	593.0	605.1	614.0	619.3	624.0	624.0	624.0
145°	500.1	542.5	577.3	604.4	617.6	628.7	638.5	642.6	645.4	645.4	645.4
147.5°	531.9	569.5	601.2	627.2	638.3	651.4	659.1	662.4	665.9	664.3	665.9
150°	550.8	585.6	616.2	640.6	651.7	664.2	671.9	674.6	678.1	676.0	678.1
152.5°	569.2	602.3	630.1	652.8	662.3	674.8	683.5	686.3	688.7	687.2	688.7
155°	594.0	623.2	648.9	669.8	678.1	689.9	698.3	701.8	704.5	701.1	704.5
157.5°	616.1	641.3	663.7	682.8	691.8	701.9	709.7	714.0	716.8	715.3	716.8
160°	629.4	652.4	672.6	690.6	699.0	708.0	716.4	721.2	724.0	721.9	724.0
162.5°	640.6	661.3	680.3	696.8	704.0	711.9	721.9	726.2	729.0	726.4	729.0
165°	656.6	673.3	689.9	703.9	710.1	716.4	726.8	731.7	733.8	731.0	733.8
167.5°	668.7	681.5	695.0	706.9	711.5	717.6	728.1	732.1	734.7	731.3	734.7
170°	675.3	686.5	698.3	708.0	711.5	717.1	727.5	731.0	733.1	729.6	733.1
172.5°	680.9	689.2	698.8	707.5	709.3	713.7	723.6	727.1	728.6	725.7	728.6
175°	686.5	691.3	698.3	703.9	703.2	705.9	714.3	717.1	719.9	715.7	719.9
177.5°	689.1	691.3	693.6	696.9	694.7	694.7	700.8	702.5	703.0	700.8	703.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2619.0	2627.6	2638.5	2658.1	2686.2	2704.1	2691.4	2678.7	2691.4	2704.1	2686.2
5°	2449.3	2476.2	2511.4	2564.2	2634.6	2687.7	2688.8	2690.0	2688.8	2687.7	2634.6
7.5°	2286.4	2316.0	2354.8	2415.9	2499.2	2570.5	2605.7	2640.9	2605.7	2570.5	2499.2
10°	2196.9	2223.3	2258.5	2321.0	2410.7	2491.3	2544.6	2598.0	2544.6	2491.3	2410.7
12.5°	2139.0	2157.2	2183.4	2241.3	2331.0	2419.3	2503.5	2587.8	2503.5	2419.3	2331.0
15°	2087.6	2089.6	2096.4	2138.5	2215.7	2305.4	2432.5	2559.7	2432.5	2305.4	2215.7
17.5°	2061.1	2046.5	2032.0	2054.5	2114.0	2192.8	2329.8	2466.7	2329.8	2192.8	2114.0
20°	2044.5	2020.7	1993.4	2005.9	2058.1	2131.1	2266.2	2401.3	2266.2	2131.1	2058.1
22.5°	2016.3	1992.0	1962.1	1967.3	2007.7	2072.3	2209.2	2346.1	2209.2	2072.3	2007.7
25°	1958.5	1939.8	1913.7	1906.3	1917.6	1964.7	2119.2	2273.6	2119.2	1964.7	1917.6
27.5°	1890.4	1877.9	1862.1	1847.4	1834.0	1864.3	2025.5	2186.7	2025.5	1864.3	1834.0
30°	1850.6	1835.0	1819.1	1800.4	1778.8	1803.0	1964.2	2125.4	1964.2	1803.0	1778.8
32.5°	1857.5	1820.7	1783.0	1747.9	1715.5	1732.8	1899.5	2066.1	1899.5	1732.8	1715.5
35°	1862.0	1787.3	1724.9	1673.8	1634.1	1647.7	1821.4	1995.1	1821.4	1647.7	1634.1
37.5°	1752.6	1703.4	1649.6	1595.8	1541.9	1548.1	1734.3	1920.5	1734.3	1548.1	1541.9
40°	1709.0	1677.5	1608.2	1541.3	1476.5	1476.8	1672.1	1867.4	1672.1	1476.8	1476.5
42.5°	1668.4	1635.3	1545.1	1471.3	1413.9	1419.6	1614.9	1810.2	1614.9	1419.6	1413.9
45°	1426.3	1433.1	1409.3	1368.4	1310.5	1317.9	1521.1	1724.3	1521.1	1317.9	1310.5
47.5°	1198.1	1247.8	1301.2	1296.6	1234.2	1235.8	1429.5	1623.2	1429.5	1235.8	1234.2
50°	1097.3	1167.4	1252.6	1259.4	1187.9	1179.9	1362.7	1545.5	1362.7	1179.9	1187.9
52.5°	1013.5	1102.7	1216.0	1229.7	1143.6	1122.5	1296.2	1469.9	1296.2	1122.5	1143.6
55°	903.5	1021.0	1176.5	1194.7	1075.5	1027.8	1194.7	1361.6	1194.7	1027.8	1075.5
57.5°	807.2	906.9	1041.8	1060.8	964.1	931.0	1088.8	1246.6	1088.8	931.0	964.1
60°	746.8	818.3	911.4	929.6	872.8	868.6	1021.8	1175.1	1021.8	868.6	872.8
62.5°	673.2	722.3	785.4	806.7	786.3	807.5	953.5	1099.5	953.5	807.5	786.3
65°	539.0	578.2	630.4	661.1	670.1	710.2	843.0	975.8	843.0	710.2	670.1
67.5°	435.6	472.3	512.0	542.4	563.5	608.3	724.1	839.9	724.1	608.3	563.5
70°	348.0	385.7	430.0	466.4	494.7	541.6	643.8	745.9	643.8	541.6	494.7
72.5°	284.0	316.3	352.4	387.8	422.5	470.5	558.1	645.8	558.1	470.5	422.5
75°	183.4	208.6	241.5	277.3	315.9	362.5	432.9	503.2	432.9	362.5	315.9
77.5°	136.5	148.8	165.4	190.3	223.4	261.1	312.5	363.8	312.5	261.1	223.4
80°	110.1	110.7	111.8	129.4	163.5	198.7	237.3	275.9	237.3	198.7	163.5
82.5°	87.4	86.2	84.6	94.0	114.4	136.9	165.5	194.1	165.5	136.9	114.4
85°	40.6	44.3	48.8	52.2	54.5	59.6	73.2	86.9	73.2	59.6	54.5
87.5°	13.1	13.0	13.0	14.2	16.5	18.2	18.5	18.8	18.5	18.1	16.8
90°	14.6	13.9	13.9	13.2	11.1	8.3	4.9	2.1	4.9	7.7	12.5
92.5°	17.4	17.2	16.1	14.9	12.2	12.2	12.1	7.7	13.2	18.8	27.0
95°	16.0	16.0	18.8	23.6	34.8	35.5	23.6	21.6	30.6	43.1	54.2
97.5°	43.3	51.5	63.2	65.4	61.9	46.2	44.2	41.2	56.1	68.4	86.4
100°	80.0	90.4	98.8	82.1	64.7	64.0	59.8	58.4	74.4	86.2	103.6
102.5°	125.1	128.3	99.3	89.9	85.8	82.9	76.5	75.7	91.7	107.9	122.5
105°	135.6	121.7	122.4	122.4	119.6	114.1	102.2	101.5	119.6	138.4	156.5
107.5°	159.5	161.6	165.3	164.4	161.2	146.3	132.4	129.2	145.5	168.0	187.9
110°	191.3	193.4	194.7	193.4	188.5	169.7	153.0	148.1	162.7	186.4	208.0



TEST NUMBER: P1427890

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	221.9	223.4	226.5	222.3	214.1	192.5	173.6	166.5	181.1	205.3	227.4
115°	270.6	270.6	271.2	269.2	252.5	230.2	205.2	194.7	207.3	229.5	253.9
117.5°	318.4	319.2	316.5	310.9	291.6	265.7	237.6	220.9	230.8	254.3	279.3
120°	348.4	349.8	347.1	338.7	319.9	290.7	258.7	239.3	246.9	269.9	294.9
122.5°	379.6	379.3	376.0	366.5	344.4	314.1	282.7	258.7	261.9	283.2	307.7
125°	422.9	422.2	419.4	408.3	385.3	354.0	317.2	287.9	283.8	301.9	326.9
127.5°	464.0	462.5	458.2	444.7	421.2	391.0	350.5	317.4	308.1	319.5	342.5
130°	492.4	490.3	482.7	468.1	445.1	416.6	375.6	338.0	324.8	331.8	351.9
132.5°	519.7	513.7	507.2	491.4	470.2	440.5	398.9	359.7	341.5	344.6	360.3
135°	554.3	548.8	540.4	525.1	504.9	475.7	434.0	391.6	366.5	363.8	372.8
137.5°	584.8	578.9	569.5	556.3	536.0	509.9	469.9	425.1	393.5	384.2	387.7
140°	603.7	596.7	588.4	575.2	557.1	530.0	491.0	447.9	412.4	399.2	397.1
142.5°	619.3	614.0	605.1	593.0	577.1	550.0	512.2	469.6	431.9	414.8	409.9
145°	642.6	638.5	628.7	617.6	604.4	577.3	542.5	500.1	462.5	440.3	429.8
147.5°	662.4	659.1	651.4	638.3	627.2	601.2	569.5	531.9	493.4	465.9	452.4
150°	674.6	671.9	664.2	651.7	640.6	616.2	585.6	550.8	514.0	484.8	467.4
152.5°	686.3	683.5	674.8	662.3	652.8	630.1	602.3	569.2	531.8	502.6	484.6
155°	701.8	698.3	689.9	678.1	669.8	648.9	623.2	594.0	562.0	531.4	511.2
157.5°	714.0	709.7	701.9	691.8	682.8	663.7	641.3	616.1	588.1	558.9	538.3
160°	721.2	716.4	708.0	699.0	690.6	672.6	652.4	629.4	603.7	577.3	555.0
162.5°	726.2	721.9	711.9	704.0	696.8	680.3	661.3	640.6	617.6	594.5	573.9
165°	731.7	726.8	716.4	710.1	703.9	689.9	673.3	656.6	637.1	618.3	601.6
167.5°	732.1	728.1	717.6	711.5	706.9	695.0	681.5	668.7	653.5	638.8	624.8
170°	731.0	727.5	717.1	711.5	708.0	698.3	686.5	675.3	663.5	651.0	639.9
172.5°	727.1	723.6	713.7	709.3	707.5	698.8	689.2	680.9	670.7	661.6	652.7
175°	717.1	714.3	705.9	703.2	703.9	698.3	691.3	686.5	680.2	674.6	669.8
177.5°	702.5	700.8	694.7	694.7	696.9	693.6	691.3	689.1	686.3	684.7	683.0
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1427890

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2658.1	2638.5	2627.6	2619.0	2617.2	2615.4	2617.2	2619.0	2627.6	2638.5	2658.1
5°	2564.2	2511.4	2476.2	2449.3	2447.0	2444.7	2447.0	2449.3	2476.2	2511.4	2564.2
7.5°	2415.9	2354.8	2316.0	2286.4	2284.6	2282.8	2284.6	2286.4	2316.0	2354.8	2415.9
10°	2321.0	2258.5	2223.3	2196.9	2196.9	2196.9	2196.9	2196.9	2223.3	2258.5	2321.0
12.5°	2241.3	2183.4	2157.2	2139.0	2144.5	2149.9	2144.5	2139.0	2157.2	2183.4	2241.3
15°	2138.5	2096.4	2089.6	2087.6	2100.1	2112.6	2100.1	2087.6	2089.6	2096.4	2138.5
17.5°	2054.5	2032.0	2046.5	2061.1	2075.6	2090.1	2075.6	2061.1	2046.5	2032.0	2054.5
20°	2005.9	1993.4	2020.7	2044.5	2058.1	2071.8	2058.1	2044.5	2020.7	1993.4	2005.9
22.5°	1967.3	1962.1	1992.0	2016.3	2023.6	2030.9	2023.6	2016.3	1992.0	1962.1	1967.3
25°	1906.3	1913.7	1939.8	1958.5	1955.1	1951.7	1955.1	1958.5	1939.8	1913.7	1906.3
27.5°	1847.4	1862.1	1877.9	1890.4	1892.4	1894.5	1892.4	1890.4	1877.9	1862.1	1847.4
30°	1800.4	1819.1	1835.0	1850.6	1865.4	1880.2	1865.4	1850.6	1835.0	1819.1	1800.4
32.5°	1747.9	1783.0	1820.7	1857.5	1891.3	1925.1	1891.3	1857.5	1820.7	1783.0	1747.9
35°	1673.8	1724.9	1787.3	1862.0	1973.3	2084.5	1973.3	1862.0	1787.3	1724.9	1673.8
37.5°	1595.8	1649.6	1703.4	1752.6	1788.0	1823.4	1788.0	1752.6	1703.4	1649.6	1595.8
40°	1541.3	1608.2	1677.5	1709.0	1627.3	1545.5	1627.3	1709.0	1677.5	1608.2	1541.3
42.5°	1471.3	1545.1	1635.3	1668.4	1530.3	1392.2	1530.3	1668.4	1635.3	1545.1	1471.3
45°	1368.4	1409.3	1433.1	1426.3	1327.5	1228.7	1327.5	1426.3	1433.1	1409.3	1368.4
47.5°	1296.6	1301.2	1247.8	1198.1	1159.5	1120.9	1159.5	1198.1	1247.8	1301.2	1296.6
50°	1259.4	1252.6	1167.4	1097.3	1072.3	1047.4	1072.3	1097.3	1167.4	1252.6	1259.4
52.5°	1229.7	1216.0	1102.7	1013.5	996.7	979.9	996.7	1013.5	1102.7	1216.0	1229.7
55°	1194.7	1176.5	1021.0	903.5	900.1	896.7	900.1	903.5	1021.0	1176.5	1194.7
57.5°	1060.8	1041.8	906.9	807.2	813.1	819.0	813.1	807.2	906.9	1041.8	1060.8
60°	929.6	911.4	818.3	746.8	740.0	733.2	740.0	746.8	818.3	911.4	929.6
62.5°	806.7	785.4	722.3	673.2	666.4	659.6	666.4	673.2	722.3	785.4	806.7
65°	661.1	630.4	578.2	539.0	539.0	539.0	539.0	578.2	630.4	661.1	661.1
67.5°	542.4	512.0	472.3	435.6	408.4	381.1	408.4	435.6	472.3	512.0	542.4
70°	466.4	430.0	385.7	348.0	329.8	311.7	329.8	348.0	385.7	430.0	466.4
72.5°	387.8	352.4	316.3	284.0	263.1	242.2	263.1	284.0	316.3	352.4	387.8
75°	277.3	241.5	208.6	183.4	181.1	178.8	181.1	183.4	208.6	241.5	277.3
77.5°	190.3	165.4	148.8	136.5	136.7	136.9	136.7	136.5	148.8	165.4	190.3
80°	129.4	111.8	110.7	110.1	111.3	112.4	111.3	110.1	110.7	111.8	129.4
82.5°	94.0	84.6	86.2	87.4	87.6	87.9	87.6	87.4	86.2	84.6	94.0
85°	52.2	48.8	44.3	40.6	39.5	38.3	39.5	40.6	44.3	48.8	52.2
87.5°	14.8	14.4	15.4	15.9	16.5	16.2	16.5	15.9	15.4	14.4	14.8
90°	16.0	20.9	25.7	28.5	31.3	29.9	31.3	28.5	25.7	20.9	16.0
92.5°	32.1	40.3	46.3	51.3	53.6	53.3	53.6	51.3	46.3	40.3	32.1
95°	64.7	74.4	84.2	91.1	95.3	93.9	95.3	91.1	84.2	74.4	64.7
97.5°	99.7	112.8	123.7	130.2	134.4	137.2	134.4	130.2	123.7	112.8	99.7
100°	123.1	135.6	148.1	155.8	162.7	165.5	162.7	155.8	148.1	135.6	123.1
102.5°	142.0	158.4	172.1	180.3	186.1	188.9	186.1	180.3	172.1	158.4	142.0
105°	173.2	190.6	205.2	215.6	221.9	224.0	221.9	215.6	205.2	190.6	173.2
107.5°	204.3	222.3	235.8	247.3	255.0	259.4	255.0	247.3	235.8	222.3	204.3
110°	228.8	243.4	258.0	268.5	276.1	278.9	276.1	268.5	258.0	243.4	228.8



TEST NUMBER: P1427890

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	249.4	265.7	280.3	290.7	299.5	303.4	299.5	290.7	280.3	265.7	249.4
115°	278.2	299.8	313.0	322.7	329.0	332.5	329.0	322.7	313.0	299.8	278.2
117.5°	302.1	324.7	339.1	346.6	349.6	352.1	349.6	346.6	339.1	324.7	302.1
120°	317.2	338.0	354.7	364.4	367.9	369.3	367.9	364.4	354.7	338.0	317.2
122.5°	331.1	350.8	366.9	378.9	384.6	386.0	384.6	378.9	366.9	350.8	331.1
125°	350.5	369.3	386.0	397.8	404.1	407.6	404.1	397.8	386.0	369.3	350.5
127.5°	367.5	387.8	403.1	413.8	419.9	422.7	419.9	413.8	403.1	387.8	367.5
130°	377.0	397.8	413.1	425.0	430.5	433.3	430.5	425.0	413.1	397.8	377.0
132.5°	384.2	406.2	422.0	432.7	438.9	441.6	438.9	432.7	422.0	406.2	384.2
135°	393.0	415.9	432.6	443.0	448.6	451.4	448.6	443.0	432.6	415.9	393.0
137.5°	400.6	421.5	438.9	449.9	454.9	456.7	454.9	449.9	438.9	421.5	400.6
140°	406.2	424.3	441.6	452.1	457.6	458.3	457.6	452.1	441.6	424.3	406.2
142.5°	413.4	427.6	442.8	453.2	458.8	460.0	458.8	453.2	442.8	427.6	413.4
145°	426.3	434.7	445.1	454.9	459.7	461.1	459.7	454.9	445.1	434.7	426.3
147.5°	442.6	445.3	450.7	457.1	461.8	462.8	461.8	457.1	445.3	442.6	442.6
150°	454.9	454.2	456.3	460.4	464.6	463.9	464.6	460.4	456.3	454.2	454.9
152.5°	468.8	464.7	464.6	466.5	468.5	468.4	468.5	466.5	464.6	464.7	468.8
155°	492.4	484.8	480.6	479.2	479.2	478.5	479.2	479.2	480.6	484.8	492.4
157.5°	518.4	507.7	501.5	498.1	497.1	495.6	497.1	498.1	501.5	507.7	518.4
160°	536.2	524.4	518.2	512.6	510.5	508.4	510.5	512.6	518.2	524.4	536.2
162.5°	552.9	541.7	534.8	529.8	527.8	524.6	527.8	529.8	534.8	541.7	552.9
165°	580.1	568.2	560.6	556.4	553.6	550.8	553.6	556.4	560.6	568.2	580.1
167.5°	607.2	594.2	589.2	584.5	581.9	576.9	581.9	584.5	589.2	594.2	607.2
170°	623.9	612.0	609.3	605.1	600.2	594.7	600.2	605.1	609.3	612.0	623.9
172.5°	638.3	630.4	627.6	623.5	621.9	617.5	621.9	623.5	627.6	630.4	638.3
175°	659.3	653.1	653.1	652.4	650.3	646.1	650.3	652.4	653.1	653.1	659.3
177.5°	676.9	673.5	675.8	675.8	675.2	671.3	675.2	675.8	675.8	673.5	676.9
180°	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6	688.6



TEST NUMBER: P1427890

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2684.8	2684.8	2684.8	2684.8
2.5°	2686.2	2704.1	2691.4	2678.7
5°	2634.6	2687.7	2688.8	2690.0
7.5°	2499.2	2570.5	2605.7	2640.9
10°	2410.7	2491.3	2544.6	2598.0
12.5°	2331.0	2419.3	2503.5	2587.8
15°	2215.7	2305.4	2432.5	2559.7
17.5°	2114.0	2192.8	2329.8	2466.7
20°	2058.1	2131.1	2266.2	2401.3
22.5°	2007.7	2072.3	2209.2	2346.1
25°	1917.6	1964.7	2119.2	2273.6
27.5°	1834.0	1864.3	2025.5	2186.7
30°	1778.8	1803.0	1964.2	2125.4
32.5°	1715.5	1732.8	1899.5	2066.1
35°	1634.1	1647.7	1821.4	1995.1
37.5°	1541.9	1548.1	1734.3	1920.5
40°	1476.5	1476.8	1672.1	1867.4
42.5°	1413.9	1419.6	1614.9	1810.2
45°	1310.5	1317.9	1521.1	1724.3
47.5°	1234.2	1235.8	1429.5	1623.2
50°	1187.9	1179.9	1362.7	1545.5
52.5°	1143.6	1122.5	1296.2	1469.9
55°	1075.5	1027.8	1194.7	1361.6
57.5°	964.1	931.0	1088.8	1246.6
60°	872.8	868.6	1021.8	1175.1
62.5°	786.3	807.5	953.5	1099.5
65°	670.1	710.2	843.0	975.8
67.5°	563.5	608.3	724.1	839.9
70°	494.7	541.6	643.8	745.9
72.5°	422.5	470.5	558.1	645.8
75°	315.9	362.5	432.9	503.2
77.5°	223.4	261.1	312.5	363.8
80°	163.5	198.7	237.3	275.9
82.5°	114.4	136.9	165.5	194.1
85°	54.5	59.6	73.2	86.9
87.5°	16.8	18.1	18.5	18.8
90°	12.5	7.7	4.9	2.1
92.5°	27.0	18.8	13.2	7.7
95°	54.2	43.1	30.6	21.6
97.5°	86.4	68.4	56.1	41.2
100°	103.6	86.2	74.4	58.4
102.5°	122.5	107.9	91.7	75.7
105°	156.5	138.4	119.6	101.5
107.5°	187.9	168.0	145.5	129.2
110°	208.0	186.4	162.7	148.1



TEST NUMBER: P1427890

CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	227.4	205.3	181.1	166.5
115°	253.9	229.5	207.3	194.7
117.5°	279.3	254.3	230.8	220.9
120°	294.9	269.9	246.9	239.3
122.5°	307.7	283.2	261.9	258.7
125°	326.9	301.9	283.8	287.9
127.5°	342.5	319.5	308.1	317.4
130°	351.9	331.8	324.8	338.0
132.5°	360.3	344.6	341.5	359.7
135°	372.8	363.8	366.5	391.6
137.5°	387.7	384.2	393.5	425.1
140°	397.1	399.2	412.4	447.9
142.5°	409.9	414.8	431.9	469.6
145°	429.8	440.3	462.5	500.1
147.5°	452.4	465.9	493.4	531.9
150°	467.4	484.8	514.0	550.8
152.5°	484.6	502.6	531.8	569.2
155°	511.2	531.4	562.0	594.0
157.5°	538.3	558.9	588.1	616.1
160°	555.0	577.3	603.7	629.4
162.5°	573.9	594.5	617.6	640.6
165°	601.6	618.3	637.1	656.6
167.5°	624.8	638.8	653.5	668.7
170°	639.9	651.0	663.5	675.3
172.5°	652.7	661.6	670.7	680.9
175°	669.8	674.6	680.2	686.5
177.5°	683.0	684.7	686.3	689.1
180°	688.6	688.6	688.6	688.6



TEST NUMBER: P1427890
 CATALOG NUMBER: SQ2W-PH1-K-050U-125D-L940-UNV-STD-W-WM-4

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	22.00	23.13	22.72	23.86	24.73	20.83	21.96	21.55	22.69	23.56
	3H	24.20	25.21	24.93	25.95	26.85	21.90	22.91	22.63	23.65	24.56
	4H	25.02	25.98	25.77	26.73	27.64	22.16	23.11	22.91	23.86	24.78
	6H	25.51	26.38	26.26	27.14	28.07	22.31	23.19	23.07	23.95	24.88
	8H	25.67	26.50	26.43	27.28	28.21	22.38	23.22	23.15	24.00	24.93
	12H	25.73	26.53	26.51	27.30	28.26	22.40	23.20	23.18	23.97	24.93
4H	2H	22.47	23.42	23.22	24.17	25.09	21.55	22.50	22.30	23.25	24.17
	3H	24.75	25.54	25.51	26.33	27.26	22.80	23.59	23.57	24.38	25.31
	4H	25.63	26.35	26.41	27.14	28.10	23.11	23.82	23.88	24.61	25.57
	6H	26.21	26.83	27.00	27.64	28.61	23.32	23.94	24.11	24.75	25.72
	8H	26.41	26.99	27.21	27.80	28.78	23.42	23.99	24.21	24.80	25.78
	12H	26.51	27.03	27.33	27.86	28.85	23.45	23.97	24.27	24.80	25.79
8H	4H	25.68	26.25	26.47	27.06	28.04	23.36	23.93	24.15	24.74	25.72
	6H	26.32	26.79	27.14	27.65	28.63	23.63	24.11	24.46	24.96	25.94
	8H	26.58	27.01	27.42	27.85	28.85	23.78	24.21	24.62	25.06	26.05
	12H	26.72	27.10	27.57	27.94	28.99	23.86	24.23	24.70	25.07	26.13
12H	4H	25.64	26.16	26.46	26.99	27.98	23.36	23.88	24.18	24.72	25.70
	6H	26.29	26.72	27.13	27.57	28.57	23.67	24.10	24.51	24.95	25.94
	8H	26.58	26.95	27.42	27.79	28.84	23.85	24.22	24.69	25.06	26.11