

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: P1427875

Luminaire Tested: SQ2W-PH1-K-050U-075D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427875  
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-075D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE HEX LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

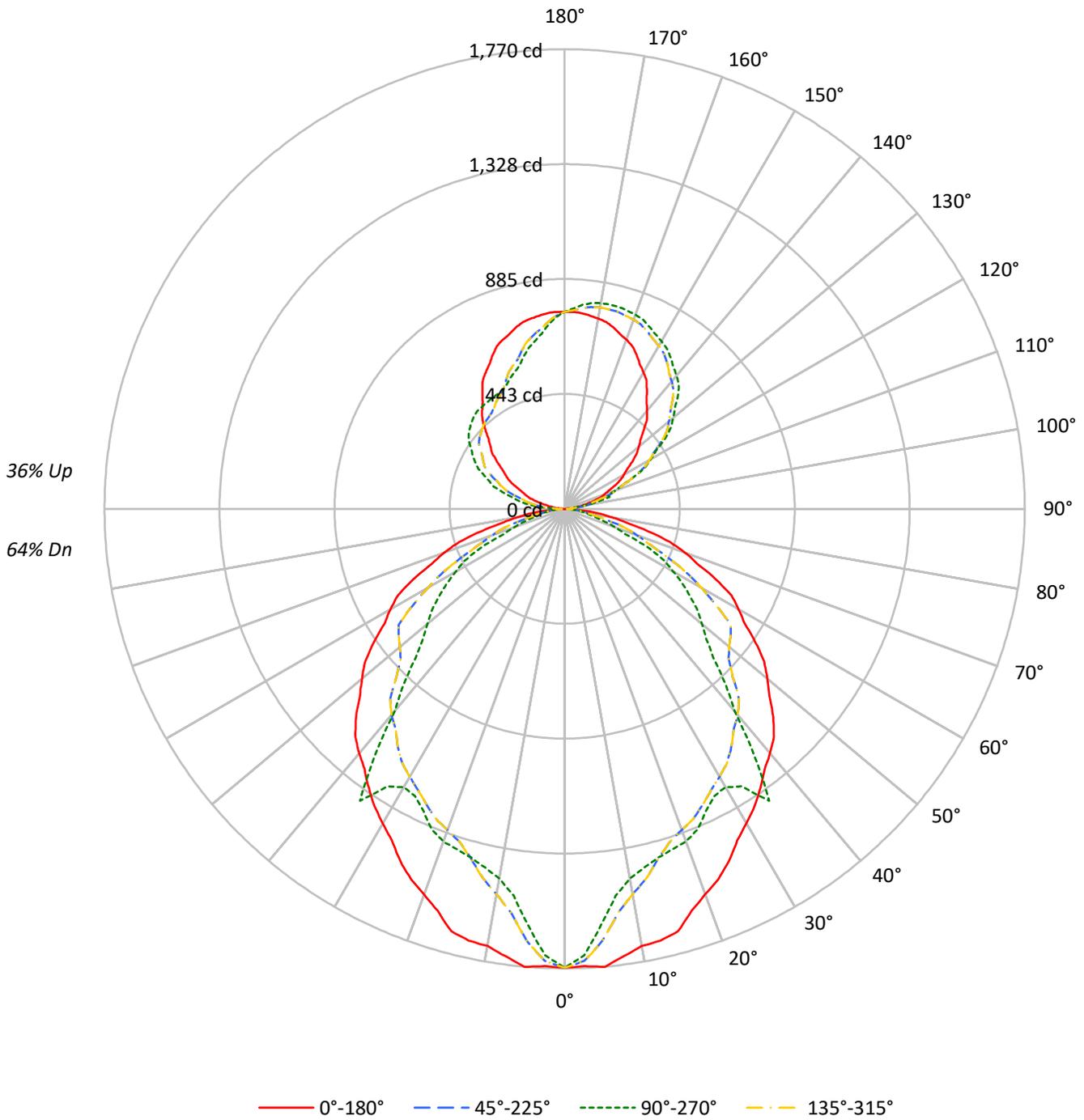
Lumens per Lamp: N/A  
Luminaire Lumens: 6125.0 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.6  
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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CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L840-UNV-STD-W-WM-4

### 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	0
RCR																		
0	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	101	97	93	90	95	91	88	85	80	78	75	70	69	67	61	60	59	54
2	92	85	79	73	86	80	74	70	71	66	63	62	59	56	54	52	50	46
3	84	75	67	61	79	70	64	59	62	57	53	55	51	48	48	45	43	39
4	77	66	58	52	72	63	55	50	56	50	45	49	45	41	43	40	37	34
5	71	59	51	45	66	56	48	43	50	44	39	44	39	36	39	35	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26
7	61	48	40	34	57	46	38	33	41	35	30	36	31	28	32	28	25	23
8	56	44	36	30	53	42	34	29	37	31	27	33	28	25	30	26	23	20
9	53	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18
10	49	37	29	25	46	35	28	24	32	26	22	28	24	20	25	21	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	28528	28528	28528	28528
5°	28692	26076	28692	26076
10°	28032	23703	28032	23703
15°	28157	23239	28157	23239
20°	27152	23426	27152	23426
25°	26656	22881	26656	22881
30°	26076	23069	26076	23069
35°	25879	27038	25879	27038
40°	25901	21437	25901	21437
45°	25911	18463	25911	18463
50°	25548	17314	25548	17314
55°	25224	16611	25224	16611
60°	24971	15580	24971	15580
65°	24534	13551	24534	13551
70°	23174	9682	23174	9682
75°	20661	7342	20661	7342
80°	16885	6880	16885	6880
85°	10596	4668	10596	4668

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25911 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	2.5
10°-20°	409.0	6.7
20°-30°	599.6	9.8
30°-40°	726.0	11.9
40°-50°	713.9	11.7
50°-60°	621.0	10.1
60°-70°	431.9	7.1
70°-80°	204.8	3.3
80°-90°	48.3	0.8
90°-100°	60.4	1.0
100°-110°	176.1	2.9
110°-120°	287.3	4.7
120°-130°	364.6	6.0
130°-140°	390.1	6.4
140°-150°	364.3	5.9
150°-160°	299.8	4.9
160°-170°	201.0	3.3
170°-180°	71.4	1.2
0°-30°	1164.0	19.0
0°-40°	1890.0	30.9
0°-60°	3224.9	52.7
0°-90°	3910.0	63.8
90°-120°	523.8	8.6
90°-150°	1642.8	26.8
90°-180°	2215.0	36.2
0°-180°	6125.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1767	1767	1767	1767	1767	
5°	1770	1609	1770	1609	1770	166
15°	1684	1390	1684	1390	1684	470
25°	1496	1284	1496	1284	1496	688
35°	1313	1372	1313	1372	1313	822
45°	1135	809	1135	809	1135	872
55°	896	590	896	590	896	800
65°	642	355	642	355	642	631
75°	331	118	331	118	331	351
85°	57	25	57	25	57	77
90°	2	17	2	33	2	4
95°	24	18	24	103	24	29
105°	112	179	112	247	112	119
115°	215	297	215	366	215	211
125°	317	471	317	449	317	284
135°	431	617	431	497	431	333
145°	551	711	551	508	551	345
155°	654	772	654	527	654	301
165°	723	805	723	607	723	204
175°	756	788	756	712	756	72
180°	759	759	759	759	759	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1762.9	1771.3	1779.6	1767.8	1749.3	1736.4	1729.3	1723.6	1722.4	1721.2	1722.4
5°	1770.3	1769.5	1768.8	1733.9	1687.5	1652.8	1629.6	1611.9	1610.4	1608.9	1610.4
7.5°	1738.0	1714.8	1691.7	1644.8	1589.9	1549.7	1524.2	1504.7	1503.5	1502.3	1503.5
10°	1709.8	1674.6	1639.5	1586.5	1527.4	1486.4	1463.2	1445.8	1445.8	1445.8	1445.8
12.5°	1703.0	1647.6	1592.2	1534.0	1475.0	1436.9	1419.7	1407.7	1411.3	1414.9	1411.3
15°	1684.5	1600.9	1517.2	1458.1	1407.3	1379.7	1375.2	1373.9	1382.1	1390.3	1382.1
17.5°	1623.4	1533.2	1443.1	1391.2	1352.1	1337.3	1346.9	1356.4	1366.0	1375.5	1366.0
20°	1580.3	1491.4	1402.5	1354.5	1320.1	1311.9	1329.8	1345.5	1354.5	1363.4	1354.5
22.5°	1544.0	1453.9	1363.8	1321.3	1294.7	1291.3	1311.0	1327.0	1331.8	1336.5	1331.8
25°	1496.3	1394.6	1293.0	1262.0	1254.5	1259.4	1276.6	1288.9	1286.7	1284.4	1286.7
27.5°	1439.1	1333.0	1226.9	1207.0	1215.8	1225.4	1235.9	1244.1	1245.4	1246.8	1245.4
30°	1398.7	1292.6	1186.5	1170.7	1184.9	1197.2	1207.7	1217.9	1227.6	1237.4	1227.6
32.5°	1359.7	1250.1	1140.4	1129.0	1150.3	1173.4	1198.2	1222.4	1244.7	1266.9	1244.7
35°	1313.0	1198.7	1084.4	1075.4	1101.5	1135.2	1176.3	1225.4	1298.6	1371.8	1298.6
37.5°	1263.9	1141.4	1018.8	1014.8	1050.2	1085.6	1121.0	1153.4	1176.7	1200.0	1176.7
40°	1228.9	1100.4	971.9	971.7	1014.3	1058.4	1104.0	1124.7	1070.9	1017.1	1070.9
42.5°	1191.3	1062.8	934.3	930.5	968.3	1016.9	1076.2	1098.0	1007.1	916.2	1007.1
45°	1134.8	1001.1	867.3	862.4	900.6	927.5	943.1	938.7	873.7	808.6	873.7
47.5°	1068.2	940.8	813.3	812.2	853.3	856.3	821.2	788.5	763.1	737.7	763.1
50°	1017.1	896.8	776.5	781.8	828.8	824.3	768.3	722.2	705.7	689.3	705.7
52.5°	967.4	853.0	738.7	752.6	809.2	800.3	725.7	667.0	656.0	644.9	656.0
55°	896.1	786.2	676.4	707.8	786.2	774.3	671.9	594.6	592.3	590.1	592.3
57.5°	820.4	716.6	612.7	634.5	698.1	685.6	596.8	531.2	535.1	539.0	535.1
60°	773.3	672.5	571.6	574.4	611.8	599.8	538.5	491.5	487.0	482.5	487.0
62.5°	723.6	627.5	531.4	517.5	530.9	516.9	475.3	443.0	438.6	434.1	438.6
65°	642.2	554.8	467.4	441.0	435.1	414.9	380.5	354.7	354.7	354.7	354.7
67.5°	552.8	476.6	400.3	370.9	357.0	336.9	310.8	286.7	268.8	250.8	268.8
70°	490.9	423.7	356.4	325.6	306.9	283.0	253.9	229.0	217.1	205.1	217.1
72.5°	425.0	367.3	309.6	278.1	255.2	231.9	208.1	186.9	173.1	159.4	173.1
75°	331.2	284.9	238.5	207.9	182.5	159.0	137.3	120.7	119.2	117.7	119.2
77.5°	239.4	205.6	171.9	147.0	125.2	108.9	98.0	89.8	90.0	90.1	90.0
80°	181.6	156.2	130.8	107.6	85.2	73.6	72.9	72.5	73.2	74.0	73.2
82.5°	127.8	108.9	90.1	75.3	61.9	55.7	56.7	57.5	57.7	57.8	57.7
85°	57.2	48.2	39.2	35.9	34.4	32.1	29.1	26.7	26.0	25.2	26.0
87.5°	12.6	12.6	12.7	11.9	10.5	9.8	9.8	9.9	10.1	10.1	10.1
90°	2.3	5.4	9.2	12.3	14.6	15.3	15.3	16.1	16.9	16.9	16.9
92.5°	8.4	13.3	13.5	13.5	16.4	17.8	19.0	19.2	19.9	19.9	19.9
95°	23.8	26.1	39.1	38.3	26.1	20.7	17.6	17.6	17.6	17.6	17.6
97.5°	45.4	48.7	50.9	68.2	72.0	69.6	56.7	47.7	42.6	40.3	42.6
100°	64.4	65.9	70.5	71.3	90.4	108.8	99.6	88.1	84.3	82.0	84.3
102.5°	83.4	84.3	91.3	94.6	99.0	109.4	141.3	137.8	135.2	134.7	135.2
105°	111.9	112.6	125.7	131.8	134.9	134.9	134.1	149.4	173.9	179.3	173.9
107.5°	142.4	145.9	161.2	177.6	181.1	182.1	178.1	175.8	174.9	175.5	174.9
110°	163.2	168.6	187.0	207.7	213.0	214.6	213.0	210.7	209.2	209.2	209.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	183.4	191.3	212.1	235.9	244.9	249.5	246.1	244.4	242.9	244.1	242.9
115°	214.6	226.1	253.6	278.2	296.6	298.8	298.1	298.1	297.3	297.3	297.3
117.5°	243.4	261.8	292.7	321.2	342.5	348.7	351.7	350.8	349.9	351.4	349.9
120°	263.6	285.1	320.3	352.5	373.2	382.4	385.4	383.9	385.4	383.9	385.4
122.5°	285.1	311.4	346.1	379.5	403.8	414.3	417.9	418.2	418.5	417.6	418.5
125°	317.2	349.4	390.0	424.5	449.8	462.1	465.1	465.9	467.4	471.3	467.4
127.5°	349.7	386.2	430.8	464.1	490.0	504.8	509.6	511.3	514.5	516.2	514.5
130°	372.4	413.8	459.0	490.4	515.7	531.8	540.2	542.5	546.4	545.6	546.4
132.5°	396.3	439.5	485.4	518.0	541.5	558.8	566.0	572.6	573.9	575.0	573.9
135°	431.4	478.2	524.1	556.3	578.5	595.4	604.6	610.7	614.6	616.9	614.6
137.5°	468.4	517.7	561.8	590.5	612.9	627.4	637.9	644.3	648.3	650.1	648.3
140°	493.5	541.0	583.9	613.8	633.7	648.3	657.5	665.1	669.7	669.7	669.7
142.5°	517.4	564.3	606.0	635.9	653.3	666.7	676.5	682.3	687.5	687.5	687.5
145°	551.0	597.7	636.0	665.9	680.5	692.7	703.4	708.0	711.1	711.1	711.1
147.5°	586.1	627.4	662.4	691.0	703.3	717.7	726.1	729.8	733.6	732.0	733.6
150°	606.9	645.2	678.9	705.7	718.0	731.8	740.2	743.3	747.1	744.8	747.1
152.5°	627.1	663.6	694.2	719.2	729.7	743.4	753.1	756.2	758.8	757.1	758.8
155°	654.4	686.6	714.9	737.9	747.1	760.1	769.3	773.2	776.2	772.4	776.2
157.5°	678.8	706.5	731.2	752.3	762.1	773.3	781.9	786.7	789.7	788.0	789.7
160°	693.5	718.8	741.0	760.9	770.1	780.1	789.3	794.6	797.7	795.4	797.7
162.5°	705.7	728.6	749.6	767.7	775.6	784.4	795.4	800.1	803.2	800.3	803.2
165°	723.4	741.8	760.1	775.5	782.4	789.3	800.8	806.1	808.4	805.4	808.4
167.5°	736.7	750.8	765.7	778.8	783.9	790.6	802.1	806.6	809.5	805.7	809.5
170°	744.1	756.3	769.3	780.1	783.9	790.0	801.5	805.4	807.7	803.8	807.7
172.5°	750.2	759.4	770.0	779.5	781.5	786.4	797.2	801.1	802.8	799.5	802.8
175°	756.3	761.7	769.3	775.5	774.7	777.8	787.0	790.0	793.1	788.5	793.1
177.5°	759.2	761.7	764.1	767.8	765.4	765.4	772.1	773.9	774.6	772.1	774.6
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1723.6	1729.3	1736.4	1749.3	1767.8	1779.6	1771.3	1762.9	1771.3	1779.6	1767.8
5°	1611.9	1629.6	1652.8	1687.5	1733.9	1768.8	1769.5	1770.3	1769.5	1768.8	1733.9
7.5°	1504.7	1524.2	1549.7	1589.9	1644.8	1691.7	1714.8	1738.0	1714.8	1691.7	1644.8
10°	1445.8	1463.2	1486.4	1527.4	1586.5	1639.5	1674.6	1709.8	1674.6	1639.5	1586.5
12.5°	1407.7	1419.7	1436.9	1475.0	1534.0	1592.2	1647.6	1703.0	1647.6	1592.2	1534.0
15°	1373.9	1375.2	1379.7	1407.3	1458.1	1517.2	1600.9	1684.5	1600.9	1517.2	1458.1
17.5°	1356.4	1346.9	1337.3	1352.1	1391.2	1443.1	1533.2	1623.4	1533.2	1443.1	1391.2
20°	1345.5	1329.8	1311.9	1320.1	1354.5	1402.5	1491.4	1580.3	1491.4	1402.5	1354.5
22.5°	1327.0	1311.0	1291.3	1294.7	1321.3	1363.8	1453.9	1544.0	1453.9	1363.8	1321.3
25°	1288.9	1276.6	1259.4	1254.5	1262.0	1293.0	1394.6	1496.3	1394.6	1293.0	1262.0
27.5°	1244.1	1235.9	1225.4	1215.8	1207.0	1226.9	1333.0	1439.1	1333.0	1226.9	1207.0
30°	1217.9	1207.7	1197.2	1184.9	1170.7	1186.5	1292.6	1398.7	1292.6	1186.5	1170.7
32.5°	1222.4	1198.2	1173.4	1150.3	1129.0	1140.4	1250.1	1359.7	1250.1	1140.4	1129.0
35°	1225.4	1176.3	1135.2	1101.5	1075.4	1084.4	1198.7	1313.0	1198.7	1084.4	1075.4
37.5°	1153.4	1121.0	1085.6	1050.2	1014.8	1018.8	1141.4	1263.9	1141.4	1018.8	1014.8
40°	1124.7	1104.0	1058.4	1014.3	971.7	971.9	1100.4	1228.9	1100.4	971.9	971.7
42.5°	1098.0	1076.2	1016.9	968.3	930.5	934.3	1062.8	1191.3	1062.8	934.3	930.5
45°	938.7	943.1	927.5	900.6	862.4	867.3	1001.1	1134.8	1001.1	867.3	862.4
47.5°	788.5	821.2	856.3	853.3	812.2	813.3	940.8	1068.2	940.8	813.3	812.2
50°	722.2	768.3	824.3	828.8	781.8	776.5	896.8	1017.1	896.8	776.5	781.8
52.5°	667.0	725.7	800.3	809.2	752.6	738.7	853.0	967.4	853.0	738.7	752.6
55°	594.6	671.9	774.3	786.2	707.8	676.4	786.2	896.1	786.2	676.4	707.8
57.5°	531.2	596.8	685.6	698.1	634.5	612.7	716.6	820.4	716.6	612.7	634.5
60°	491.5	538.5	599.8	611.8	574.4	571.6	672.5	773.3	672.5	571.6	574.4
62.5°	443.0	475.3	516.9	530.9	517.5	531.4	627.5	723.6	627.5	531.4	517.5
65°	354.7	380.5	414.9	435.1	441.0	467.4	554.8	642.2	554.8	467.4	441.0
67.5°	286.7	310.8	336.9	357.0	370.9	400.3	476.6	552.8	476.6	400.3	370.9
70°	229.0	253.9	283.0	306.9	325.6	356.4	423.7	490.9	423.7	356.4	325.6
72.5°	186.9	208.1	231.9	255.2	278.1	309.6	367.3	425.0	367.3	309.6	278.1
75°	120.7	137.3	159.0	182.5	207.9	238.5	284.9	331.2	284.9	238.5	207.9
77.5°	89.8	98.0	108.9	125.2	147.0	171.9	205.6	239.4	205.6	171.9	147.0
80°	72.5	72.9	73.6	85.2	107.6	130.8	156.2	181.6	156.2	130.8	107.6
82.5°	57.5	56.7	55.7	61.9	75.3	90.1	108.9	127.8	108.9	90.1	75.3
85°	26.7	29.1	32.1	34.4	35.9	39.2	48.2	57.2	48.2	39.2	35.9
87.5°	9.9	9.8	9.8	10.5	11.9	12.7	12.6	12.6	12.6	12.6	12.2
90°	16.1	15.3	15.3	14.6	12.3	9.2	5.4	2.3	5.4	8.4	13.8
92.5°	19.2	19.0	17.8	16.4	13.5	13.5	13.3	8.4	14.6	20.7	29.7
95°	17.6	17.6	20.7	26.1	38.3	39.1	26.1	23.8	33.7	47.5	59.8
97.5°	47.7	56.7	69.6	72.0	68.2	50.9	48.7	45.4	61.8	75.4	95.2
100°	88.1	99.6	108.8	90.4	71.3	70.5	65.9	64.4	82.0	95.0	114.2
102.5°	137.8	141.3	109.4	99.0	94.6	91.3	84.3	83.4	101.0	118.9	135.0
105°	149.4	134.1	134.9	134.9	131.8	125.7	112.6	111.9	131.8	152.5	172.4
107.5°	175.8	178.1	182.1	181.1	177.6	161.2	145.9	142.4	160.3	185.1	207.0
110°	210.7	213.0	214.6	213.0	207.7	187.0	168.6	163.2	179.3	205.4	229.1



TEST NUMBER: P1427875

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	244.4	246.1	249.5	244.9	235.9	212.1	191.3	183.4	199.5	226.2	250.6
115°	298.1	298.1	298.8	296.6	278.2	253.6	226.1	214.6	228.4	252.9	279.7
117.5°	350.8	351.7	348.7	342.5	321.2	292.7	261.8	243.4	254.3	280.2	307.7
120°	383.9	385.4	382.4	373.2	352.5	320.3	285.1	263.6	272.0	297.3	324.9
122.5°	418.2	417.9	414.3	403.8	379.5	346.1	311.4	285.1	288.6	312.0	339.0
125°	465.9	465.1	462.1	449.8	424.5	390.0	349.4	317.2	312.6	332.6	360.2
127.5°	511.3	509.6	504.8	490.0	464.1	430.8	386.2	349.7	339.5	352.0	377.3
130°	542.5	540.2	531.8	515.7	490.4	459.0	413.8	372.4	357.9	365.5	387.7
132.5°	572.6	566.0	558.8	541.5	518.0	485.4	439.5	396.3	376.2	379.6	396.9
135°	610.7	604.6	595.4	578.5	556.3	524.1	478.2	431.4	403.8	400.8	410.7
137.5°	644.3	637.9	627.4	612.9	590.5	561.8	517.7	468.4	433.6	423.3	427.1
140°	665.1	657.5	648.3	633.7	613.8	583.9	541.0	493.5	454.4	439.8	437.5
142.5°	682.3	676.5	666.7	653.3	635.9	606.0	564.3	517.4	475.9	457.0	451.6
145°	708.0	703.4	692.7	680.5	665.9	636.0	597.7	551.0	509.6	485.1	473.6
147.5°	729.8	726.1	717.7	703.3	691.0	662.4	627.4	586.1	543.6	513.3	498.4
150°	743.3	740.2	731.8	718.0	705.7	678.9	645.2	606.9	566.3	534.1	514.9
152.5°	756.2	753.1	743.4	729.7	719.2	694.2	663.6	627.1	585.9	553.7	533.9
155°	773.2	769.3	760.1	747.1	737.9	714.9	686.6	654.4	619.2	585.4	563.2
157.5°	786.7	781.9	773.3	762.1	752.3	731.2	706.5	678.8	648.0	615.8	593.1
160°	794.6	789.3	780.1	770.1	760.9	741.0	718.8	693.5	665.1	636.0	611.5
162.5°	800.1	795.4	784.4	775.6	767.7	749.6	728.6	705.7	680.5	655.0	632.3
165°	806.1	800.8	789.3	782.4	775.5	760.1	741.8	723.4	701.9	681.2	662.8
167.5°	806.6	802.1	790.6	783.9	778.8	765.7	750.8	736.7	720.0	703.8	688.4
170°	805.4	801.5	790.0	783.9	780.1	769.3	756.3	744.1	731.0	717.2	705.0
172.5°	801.1	797.2	786.4	781.5	779.5	770.0	759.4	750.2	739.0	728.9	719.1
175°	790.0	787.0	777.8	774.7	775.5	769.3	761.7	756.3	749.4	743.3	737.9
177.5°	773.9	772.1	765.4	765.4	767.8	764.1	761.7	759.2	756.2	754.3	752.5
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427875

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9	1766.9
2.5°	1749.3	1736.4	1729.3	1723.6	1722.4	1721.2	1722.4	1723.6	1729.3	1736.4	1749.3
5°	1687.5	1652.8	1629.6	1611.9	1610.4	1608.9	1610.4	1611.9	1629.6	1652.8	1687.5
7.5°	1589.9	1549.7	1524.2	1504.7	1503.5	1502.3	1503.5	1504.7	1524.2	1549.7	1589.9
10°	1527.4	1486.4	1463.2	1445.8	1445.8	1445.8	1445.8	1445.8	1463.2	1486.4	1527.4
12.5°	1475.0	1436.9	1419.7	1407.7	1411.3	1414.9	1411.3	1407.7	1419.7	1436.9	1475.0
15°	1407.3	1379.7	1375.2	1373.9	1382.1	1390.3	1382.1	1373.9	1375.2	1379.7	1407.3
17.5°	1352.1	1337.3	1346.9	1356.4	1366.0	1375.5	1366.0	1356.4	1346.9	1337.3	1352.1
20°	1320.1	1311.9	1329.8	1345.5	1354.5	1363.4	1354.5	1345.5	1329.8	1311.9	1320.1
22.5°	1294.7	1291.3	1311.0	1327.0	1331.8	1336.5	1331.8	1327.0	1311.0	1291.3	1294.7
25°	1254.5	1259.4	1276.6	1288.9	1286.7	1284.4	1286.7	1288.9	1276.6	1259.4	1254.5
27.5°	1215.8	1225.4	1235.9	1244.1	1245.4	1246.8	1245.4	1244.1	1235.9	1225.4	1215.8
30°	1184.9	1197.2	1207.7	1217.9	1227.6	1237.4	1227.6	1217.9	1207.7	1197.2	1184.9
32.5°	1150.3	1173.4	1198.2	1222.4	1244.7	1266.9	1244.7	1222.4	1198.2	1173.4	1150.3
35°	1101.5	1135.2	1176.3	1225.4	1298.6	1371.8	1298.6	1225.4	1176.3	1135.2	1101.5
37.5°	1050.2	1085.6	1121.0	1153.4	1176.7	1200.0	1176.7	1153.4	1121.0	1085.6	1050.2
40°	1014.3	1058.4	1104.0	1124.7	1070.9	1017.1	1070.9	1124.7	1104.0	1058.4	1014.3
42.5°	968.3	1016.9	1076.2	1098.0	1007.1	916.2	1007.1	1098.0	1076.2	1016.9	968.3
45°	900.6	927.5	943.1	938.7	873.7	808.6	873.7	938.7	943.1	927.5	900.6
47.5°	853.3	856.3	821.2	788.5	763.1	737.7	763.1	788.5	821.2	856.3	853.3
50°	828.8	824.3	768.3	722.2	705.7	689.3	705.7	722.2	768.3	824.3	828.8
52.5°	809.2	800.3	725.7	667.0	656.0	644.9	656.0	667.0	725.7	800.3	809.2
55°	786.2	774.3	671.9	594.6	592.3	590.1	592.3	594.6	671.9	774.3	786.2
57.5°	698.1	685.6	596.8	531.2	535.1	539.0	535.1	531.2	596.8	685.6	698.1
60°	611.8	599.8	538.5	491.5	487.0	482.5	487.0	491.5	538.5	599.8	611.8
62.5°	530.9	516.9	475.3	443.0	438.6	434.1	438.6	443.0	475.3	516.9	530.9
65°	435.1	414.9	380.5	354.7	354.7	354.7	354.7	354.7	380.5	414.9	435.1
67.5°	357.0	336.9	310.8	286.7	268.8	250.8	268.8	286.7	310.8	336.9	357.0
70°	306.9	283.0	253.9	229.0	217.1	205.1	217.1	229.0	253.9	283.0	306.9
72.5°	255.2	231.9	208.1	186.9	173.1	159.4	173.1	186.9	208.1	231.9	255.2
75°	182.5	159.0	137.3	120.7	119.2	117.7	119.2	120.7	137.3	159.0	182.5
77.5°	125.2	108.9	98.0	89.8	90.0	90.1	90.0	89.8	98.0	108.9	125.2
80°	85.2	73.6	72.9	72.5	73.2	74.0	73.2	72.5	72.9	73.6	85.2
82.5°	61.9	55.7	56.7	57.5	57.7	57.8	57.7	57.5	56.7	55.7	61.9
85°	34.4	32.1	29.1	26.7	26.0	25.2	26.0	26.7	29.1	32.1	34.4
87.5°	11.1	11.3	12.4	13.0	13.6	13.3	13.6	13.0	12.4	11.3	11.1
90°	17.6	23.0	28.4	31.4	34.5	33.0	34.5	31.4	28.4	23.0	17.6
92.5°	35.4	44.4	51.0	56.6	59.0	58.7	59.0	56.6	51.0	44.4	35.4
95°	71.3	82.0	92.7	100.4	105.0	103.4	105.0	100.4	92.7	82.0	71.3
97.5°	109.9	124.3	136.2	143.4	148.0	151.1	148.0	143.4	136.2	124.3	109.9
100°	135.6	149.4	163.2	171.6	179.3	182.4	179.3	163.2	149.4	135.6	135.6
102.5°	156.5	174.6	189.6	198.6	205.1	208.1	205.1	198.6	189.6	174.6	156.5
105°	190.8	210.0	226.1	237.5	244.4	246.7	244.4	237.5	226.1	210.0	190.8
107.5°	225.1	244.9	259.8	272.5	280.9	285.8	280.9	272.5	259.8	244.9	225.1
110°	252.1	268.2	284.3	295.8	304.2	307.3	304.2	295.8	268.2	252.1	252.1



TEST NUMBER: P1427875

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	274.8	292.7	308.8	320.3	330.0	334.3	330.0	320.3	308.8	292.7	274.8
115°	306.5	330.3	344.8	355.6	362.5	366.3	362.5	355.6	344.8	330.3	306.5
117.5°	332.9	357.7	373.6	381.9	385.1	387.9	385.1	381.9	373.6	357.7	332.9
120°	349.4	372.4	390.8	401.5	405.4	406.9	405.4	401.5	390.8	372.4	349.4
122.5°	364.7	386.5	404.3	417.5	423.8	425.3	423.8	417.5	404.3	386.5	364.7
125°	386.2	406.9	425.3	438.3	445.2	449.0	445.2	438.3	425.3	406.9	386.2
127.5°	404.9	427.3	444.1	455.9	462.7	465.7	462.7	455.9	444.1	427.3	404.9
130°	415.3	438.3	455.2	468.2	474.3	477.4	474.3	468.2	455.2	438.3	415.3
132.5°	423.3	447.5	465.0	476.8	483.5	486.6	483.5	476.8	465.0	447.5	423.3
135°	432.9	458.2	476.6	488.1	494.3	497.3	494.3	488.1	476.6	458.2	432.9
137.5°	441.4	464.4	483.5	495.6	501.1	503.1	501.1	495.6	483.5	464.4	441.4
140°	447.5	467.4	486.6	498.1	504.2	505.0	504.2	498.1	486.6	467.4	447.5
142.5°	455.5	471.1	487.8	499.3	505.4	506.8	505.4	499.3	487.8	471.1	455.5
145°	469.7	478.9	490.4	501.1	506.5	508.0	506.5	501.1	490.4	478.9	469.7
147.5°	487.7	490.6	496.5	503.6	508.8	509.9	508.8	503.6	496.5	490.6	487.7
150°	501.1	500.4	502.7	507.3	511.9	511.1	511.9	507.3	502.7	500.4	501.1
152.5°	516.5	512.0	511.9	514.0	516.2	516.0	516.2	514.0	511.9	512.0	516.5
155°	542.5	534.1	529.5	528.0	528.0	527.2	528.0	528.0	529.5	534.1	542.5
157.5°	571.2	559.4	552.5	548.8	547.7	546.1	547.7	548.8	552.5	559.4	571.2
160°	590.8	577.8	570.9	564.7	562.4	560.2	562.4	564.7	570.9	577.8	590.8
162.5°	609.2	596.8	589.3	583.8	581.5	577.9	581.5	583.8	589.3	596.8	609.2
165°	639.1	626.1	617.6	613.0	610.0	606.9	610.0	613.0	617.6	626.1	639.1
167.5°	669.0	654.7	649.2	644.0	641.1	635.6	641.1	644.0	649.2	654.7	669.0
170°	687.4	674.3	671.3	666.7	661.3	655.2	661.3	666.7	671.3	674.3	687.4
172.5°	703.3	694.6	691.5	686.9	685.2	680.3	685.2	686.9	691.5	694.6	703.3
175°	726.4	719.5	719.5	718.8	716.5	711.9	716.5	718.8	719.5	719.5	726.4
177.5°	745.7	742.1	744.5	744.5	743.9	739.6	743.9	744.5	744.5	742.1	745.7
180°	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6	758.6



TEST NUMBER: P1427875

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1766.9	1766.9	1766.9	1766.9
2.5°	1767.8	1779.6	1771.3	1762.9
5°	1733.9	1768.8	1769.5	1770.3
7.5°	1644.8	1691.7	1714.8	1738.0
10°	1586.5	1639.5	1674.6	1709.8
12.5°	1534.0	1592.2	1647.6	1703.0
15°	1458.1	1517.2	1600.9	1684.5
17.5°	1391.2	1443.1	1533.2	1623.4
20°	1354.5	1402.5	1491.4	1580.3
22.5°	1321.3	1363.8	1453.9	1544.0
25°	1262.0	1293.0	1394.6	1496.3
27.5°	1207.0	1226.9	1333.0	1439.1
30°	1170.7	1186.5	1292.6	1398.7
32.5°	1129.0	1140.4	1250.1	1359.7
35°	1075.4	1084.4	1198.7	1313.0
37.5°	1014.8	1018.8	1141.4	1263.9
40°	971.7	971.9	1100.4	1228.9
42.5°	930.5	934.3	1062.8	1191.3
45°	862.4	867.3	1001.1	1134.8
47.5°	812.2	813.3	940.8	1068.2
50°	781.8	776.5	896.8	1017.1
52.5°	752.6	738.7	853.0	967.4
55°	707.8	676.4	786.2	896.1
57.5°	634.5	612.7	716.6	820.4
60°	574.4	571.6	672.5	773.3
62.5°	517.5	531.4	627.5	723.6
65°	441.0	467.4	554.8	642.2
67.5°	370.9	400.3	476.6	552.8
70°	325.6	356.4	423.7	490.9
72.5°	278.1	309.6	367.3	425.0
75°	207.9	238.5	284.9	331.2
77.5°	147.0	171.9	205.6	239.4
80°	107.6	130.8	156.2	181.6
82.5°	75.3	90.1	108.9	127.8
85°	35.9	39.2	48.2	57.2
87.5°	12.2	12.6	12.6	12.6
90°	13.8	8.4	5.4	2.3
92.5°	29.7	20.7	14.6	8.4
95°	59.8	47.5	33.7	23.8
97.5°	95.2	75.4	61.8	45.4
100°	114.2	95.0	82.0	64.4
102.5°	135.0	118.9	101.0	83.4
105°	172.4	152.5	131.8	111.9
107.5°	207.0	185.1	160.3	142.4
110°	229.1	205.4	179.3	163.2



TEST NUMBER: P1427875

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	250.6	226.2	199.5	183.4
115°	279.7	252.9	228.4	214.6
117.5°	307.7	280.2	254.3	243.4
120°	324.9	297.3	272.0	263.6
122.5°	339.0	312.0	288.6	285.1
125°	360.2	332.6	312.6	317.2
127.5°	377.3	352.0	339.5	349.7
130°	387.7	365.5	357.9	372.4
132.5°	396.9	379.6	376.2	396.3
135°	410.7	400.8	403.8	431.4
137.5°	427.1	423.3	433.6	468.4
140°	437.5	439.8	454.4	493.5
142.5°	451.6	457.0	475.9	517.4
145°	473.6	485.1	509.6	551.0
147.5°	498.4	513.3	543.6	586.1
150°	514.9	534.1	566.3	606.9
152.5°	533.9	553.7	585.9	627.1
155°	563.2	585.4	619.2	654.4
157.5°	593.1	615.8	648.0	678.8
160°	611.5	636.0	665.1	693.5
162.5°	632.3	655.0	680.5	705.7
165°	662.8	681.2	701.9	723.4
167.5°	688.4	703.8	720.0	736.7
170°	705.0	717.2	731.0	744.1
172.5°	719.1	728.9	739.0	750.2
175°	737.9	743.3	749.4	756.3
177.5°	752.5	754.3	756.2	759.2
180°	758.6	758.6	758.6	758.6



TEST NUMBER: P1427875  
 CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L840-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	19.71	20.70	20.54	21.55	22.61	18.54	19.53	19.37	20.38	21.44
	3H	21.89	22.78	22.74	23.64	24.73	19.60	20.49	20.44	21.35	22.43
	4H	22.71	23.55	23.57	24.42	25.52	19.85	20.69	20.71	21.55	22.65
	6H	23.19	23.96	24.06	24.84	25.95	20.00	20.77	20.87	21.64	22.76
	8H	23.34	24.08	24.22	24.97	26.08	20.06	20.79	20.94	21.69	22.80
	12H	23.41	24.11	24.29	24.99	26.13	20.07	20.77	20.96	21.66	22.80
4H	2H	20.16	21.00	21.03	21.87	22.96	19.24	20.08	20.10	20.94	22.04
	3H	22.43	23.12	23.30	24.02	25.14	20.48	21.18	21.36	22.08	23.19
	4H	23.30	23.94	24.19	24.83	25.97	20.78	21.41	21.67	22.31	23.45
	6H	23.87	24.42	24.77	25.34	26.48	20.98	21.53	21.89	22.45	23.59
	8H	24.08	24.59	24.98	25.50	26.66	21.08	21.59	21.98	22.50	23.66
	12H	24.17	24.63	25.09	25.56	26.72	21.11	21.57	22.03	22.50	23.66
8H	4H	23.34	23.85	24.24	24.76	25.92	21.02	21.53	21.92	22.44	23.60
	6H	23.97	24.39	24.90	25.35	26.50	21.29	21.71	22.22	22.67	23.82
	8H	24.24	24.61	25.18	25.56	26.73	21.44	21.81	22.38	22.76	23.93
	12H	24.37	24.70	25.32	25.64	26.86	21.51	21.84	22.45	22.78	24.00
12H	4H	23.29	23.75	24.22	24.69	25.85	21.02	21.48	21.94	22.41	23.57
	6H	23.95	24.32	24.89	25.27	26.44	21.33	21.70	22.27	22.65	23.82
	8H	24.23	24.55	25.17	25.50	26.72	21.49	21.82	22.44	22.76	23.99