

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: P1427873

Luminaire Tested: SQ2W-PH1-K-050U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427873
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-L830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

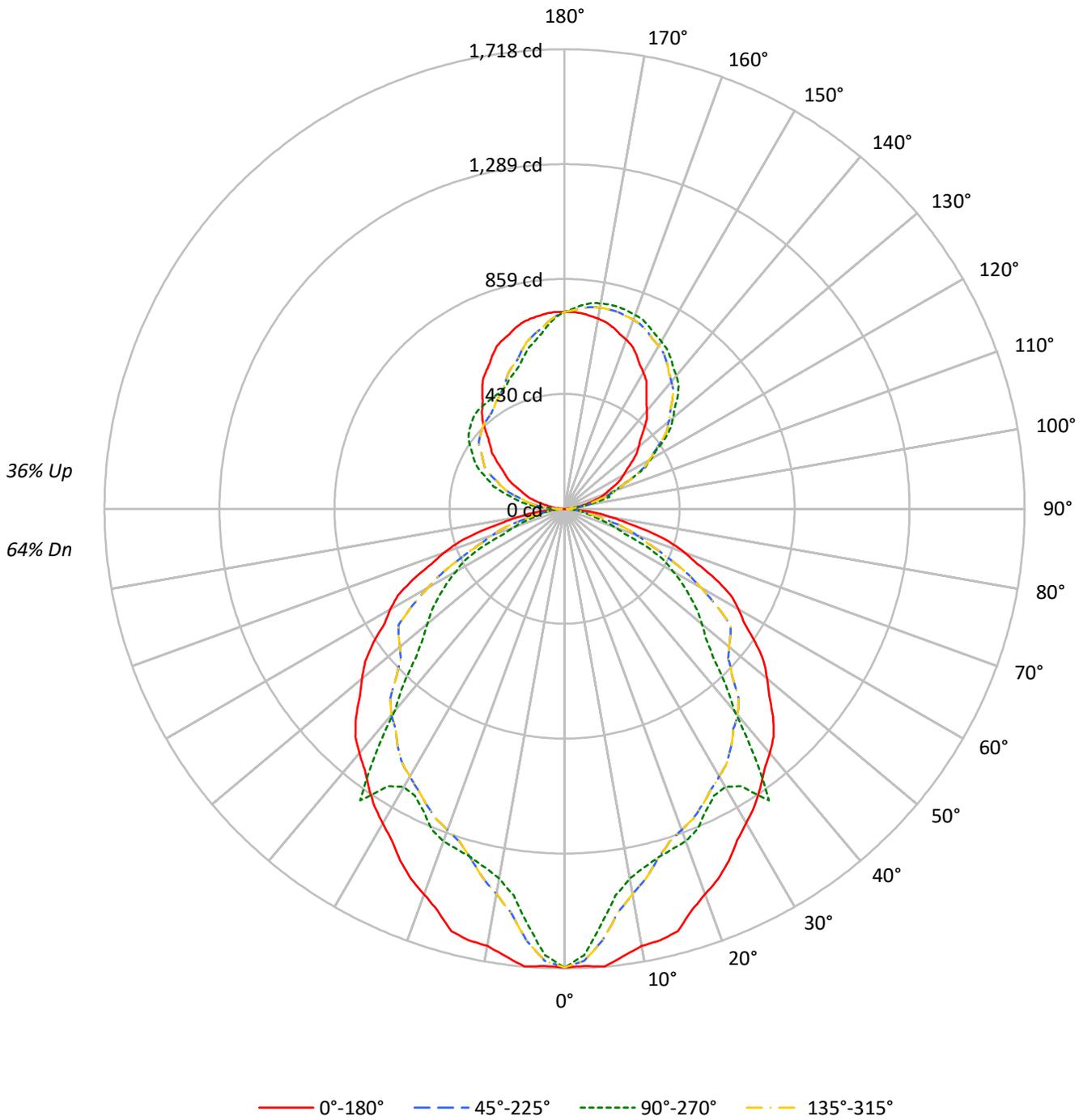
Lumens per Lamp: N/A
Luminaire Lumens: 5942.3 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 41.6
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	27677	27677	27677	27677
5°	27836	25298	27836	25298
10°	27195	22997	27195	22997
15°	27317	22547	27317	22547
20°	26343	22728	26343	22728
25°	25860	22199	25860	22199
30°	25299	22379	25299	22379
35°	25107	26232	25107	26232
40°	25130	20798	25130	20798
45°	25139	17913	25139	17913
50°	24786	16796	24786	16796
55°	24470	16115	24470	16115
60°	24228	15115	24228	15115
65°	23805	13146	23805	13146
70°	22484	9394	22484	9394
75°	20043	7124	20043	7124
80°	16383	6676	16383	6676
85°	10281	4539	10281	4539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.5
10°-20°	396.8	6.7
20°-30°	581.7	9.8
30°-40°	704.4	11.9
40°-50°	692.6	11.7
50°-60°	602.5	10.1
60°-70°	419.0	7.1
70°-80°	198.7	3.3
80°-90°	46.9	0.8
90°-100°	58.6	1.0
100°-110°	170.8	2.9
110°-120°	278.8	4.7
120°-130°	353.7	6.0
130°-140°	378.5	6.4
140°-150°	353.4	5.9
150°-160°	290.8	4.9
160°-170°	195.1	3.3
170°-180°	69.3	1.2
0°-30°	1129.3	19.0
0°-40°	1833.6	30.9
0°-60°	3128.7	52.7
0°-90°	3793.3	63.8
90°-120°	508.2	8.6
90°-150°	1593.8	26.8
90°-180°	2149.0	36.2
0°-180°	5942.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1714	1714	1714	1714	1714	
5°	1718	1561	1718	1561	1718	162
15°	1634	1349	1634	1349	1634	456
25°	1452	1246	1452	1246	1452	668
35°	1274	1331	1274	1331	1274	798
45°	1101	784	1101	784	1101	846
55°	869	572	869	572	869	777
65°	623	344	623	344	623	612
75°	321	114	321	114	321	340
85°	56	24	56	24	56	74
90°	2	16	2	32	2	3
95°	23	17	23	100	23	28
105°	108	174	108	239	108	115
115°	208	288	208	355	208	205
125°	308	457	308	436	308	275
135°	418	598	418	482	418	323
145°	534	690	534	493	534	334
155°	635	749	635	512	635	292
165°	702	781	702	589	702	198
175°	734	765	734	691	734	70
180°	736	736	736	736	736	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2
2.5°	1710.3	1718.4	1726.5	1715.1	1697.1	1684.6	1677.7	1672.2	1671.0	1669.9	1671.0
5°	1717.5	1716.8	1716.0	1682.1	1637.2	1603.5	1581.0	1563.8	1562.4	1560.9	1562.4
7.5°	1686.2	1663.7	1641.2	1595.7	1542.5	1503.5	1478.7	1459.8	1458.7	1457.5	1458.7
10°	1658.8	1624.7	1590.6	1539.2	1481.9	1442.0	1419.6	1402.7	1402.7	1402.7	1402.7
12.5°	1652.2	1598.5	1544.7	1488.3	1431.0	1394.0	1377.4	1365.7	1369.2	1372.7	1369.2
15°	1634.3	1553.1	1471.9	1414.7	1365.4	1338.5	1334.2	1332.9	1340.9	1348.9	1340.9
17.5°	1574.9	1487.5	1400.1	1349.7	1311.8	1297.4	1306.7	1316.0	1325.2	1334.5	1325.2
20°	1533.2	1446.9	1360.7	1314.1	1280.7	1272.8	1290.2	1305.4	1314.1	1322.8	1314.1
22.5°	1497.9	1410.5	1323.1	1281.9	1256.1	1252.7	1271.9	1287.4	1292.0	1296.7	1292.0
25°	1451.6	1353.0	1254.5	1224.4	1217.1	1221.8	1238.5	1250.5	1248.3	1246.1	1248.3
27.5°	1396.2	1293.2	1190.3	1171.0	1179.5	1188.9	1199.0	1207.0	1208.3	1209.6	1208.3
30°	1357.0	1254.1	1151.2	1135.7	1149.5	1161.5	1171.6	1181.6	1191.0	1200.4	1191.0
32.5°	1319.2	1212.8	1106.4	1095.3	1116.0	1138.4	1162.5	1185.9	1207.6	1229.2	1207.6
35°	1273.8	1162.9	1052.0	1043.3	1068.7	1101.3	1141.2	1188.8	1259.9	1330.9	1259.9
37.5°	1226.2	1107.3	988.4	984.5	1018.9	1053.2	1087.6	1119.0	1141.6	1164.2	1141.6
40°	1192.3	1067.6	942.9	942.7	984.1	1026.8	1071.1	1091.2	1039.0	986.8	1039.0
42.5°	1155.8	1031.1	906.4	902.7	939.4	986.5	1044.1	1065.2	977.1	888.9	977.1
45°	1101.0	971.2	841.4	836.7	873.7	899.8	915.0	910.7	847.6	784.5	847.6
47.5°	1036.4	912.7	789.0	788.0	827.9	830.8	796.7	765.0	740.3	715.7	740.3
50°	986.8	870.1	753.4	758.4	804.1	799.8	745.4	700.6	684.7	668.7	684.7
52.5°	938.5	827.6	716.7	730.2	785.1	776.4	704.1	647.1	636.4	625.7	636.4
55°	869.3	762.8	656.2	686.7	762.8	751.2	651.9	576.8	574.7	572.5	574.7
57.5°	795.9	695.2	594.4	615.6	677.3	665.1	579.0	515.4	519.1	522.9	519.1
60°	750.3	652.4	554.6	557.3	593.5	581.9	522.5	476.8	472.5	468.1	472.5
62.5°	702.0	608.8	515.6	502.0	515.1	501.5	461.2	429.8	425.5	421.1	425.5
65°	623.1	538.2	453.4	427.9	422.1	402.5	369.2	344.1	344.1	344.1	344.1
67.5°	536.3	462.3	388.4	359.8	346.3	326.9	301.5	278.1	260.7	243.4	260.7
70°	476.3	411.0	345.8	315.9	297.8	274.6	246.3	222.2	210.6	199.0	210.6
72.5°	412.3	356.4	300.4	269.8	247.6	225.0	201.9	181.3	168.0	154.6	168.0
75°	321.3	276.4	231.4	201.7	177.1	154.2	133.2	117.1	115.6	114.2	115.6
77.5°	232.3	199.5	166.7	142.7	121.5	105.6	95.0	87.1	87.3	87.4	87.3
80°	176.2	151.5	126.9	104.4	82.6	71.4	70.7	70.3	71.0	71.8	71.0
82.5°	124.0	105.7	87.4	73.1	60.0	54.0	55.0	55.8	56.0	56.1	56.0
85°	55.5	46.8	38.1	34.8	33.3	31.2	28.3	25.9	25.2	24.5	25.2
87.5°	12.2	12.2	12.4	11.5	10.2	9.5	9.5	9.6	9.8	9.8	9.8
90°	2.2	5.2	8.9	11.9	14.1	14.9	14.9	15.6	16.4	16.4	16.4
92.5°	8.2	12.9	13.1	13.1	15.9	17.2	18.4	18.6	19.3	19.3	19.3
95°	23.0	25.3	37.9	37.2	25.3	20.1	17.1	17.1	17.1	17.1	17.1
97.5°	44.0	47.3	49.4	66.2	69.9	67.5	55.0	46.2	41.3	39.1	41.3
100°	62.4	63.9	68.4	69.1	87.7	105.6	96.6	85.5	81.8	79.5	81.8
102.5°	80.9	81.8	88.6	91.7	96.1	106.2	137.1	133.7	131.1	130.7	131.1
105°	108.5	109.3	121.9	127.9	130.8	130.8	130.1	145.0	168.8	174.0	168.8
107.5°	138.1	141.5	156.4	172.3	175.7	176.6	172.8	170.5	169.6	170.2	169.6
110°	158.3	163.6	181.4	201.5	206.7	208.2	206.7	204.4	203.0	203.0	203.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	178.0	185.6	205.8	228.8	237.6	242.1	238.8	237.2	235.7	236.9	235.7
115°	208.2	219.3	246.1	269.9	287.7	289.9	289.2	289.2	288.4	288.4	288.4
117.5°	236.1	254.0	284.0	311.6	332.3	338.3	341.2	340.3	339.4	340.9	339.4
120°	255.7	276.6	310.8	342.0	362.0	371.0	373.9	372.5	373.9	372.5	373.9
122.5°	276.6	302.1	335.7	368.1	391.8	401.9	405.5	405.8	406.1	405.2	406.1
125°	307.8	339.0	378.4	411.9	436.4	448.3	451.3	452.0	453.5	457.2	453.5
127.5°	339.3	374.7	418.0	450.2	475.3	489.8	494.4	496.0	499.1	500.8	499.1
130°	361.3	401.4	445.3	475.8	500.3	515.9	524.1	526.3	530.1	529.3	530.1
132.5°	384.5	426.4	470.9	502.6	525.3	542.1	549.1	555.5	556.8	557.9	556.8
135°	418.5	463.9	508.5	539.7	561.3	577.6	586.6	592.5	596.2	598.5	596.2
137.5°	454.4	502.3	545.1	572.9	594.6	608.7	618.8	625.1	628.9	630.7	628.9
140°	478.8	524.9	566.5	595.5	614.8	628.9	637.9	645.3	649.8	649.8	649.8
142.5°	502.0	547.5	587.9	616.9	633.8	646.8	656.3	661.9	667.0	667.0	667.0
145°	534.5	579.9	617.0	646.0	660.2	672.1	682.5	686.9	689.9	689.9	689.9
147.5°	568.6	608.7	642.6	670.4	682.3	696.3	704.5	708.0	711.8	710.1	711.8
150°	588.8	626.0	658.7	684.7	696.6	710.0	718.1	721.1	724.8	722.6	724.8
152.5°	608.4	643.8	673.5	697.8	707.9	721.3	730.6	733.6	736.1	734.5	736.1
155°	634.9	666.1	693.6	715.9	724.8	737.5	746.4	750.1	753.1	749.4	753.1
157.5°	658.5	685.4	709.4	729.9	739.4	750.3	758.6	763.2	766.2	764.5	766.2
160°	672.8	697.3	718.9	738.2	747.1	756.8	765.7	770.9	773.9	771.7	773.9
162.5°	684.7	706.8	727.2	744.8	752.5	761.0	771.7	776.3	779.3	776.4	779.3
165°	701.8	719.6	737.5	752.3	759.0	765.7	776.9	782.1	784.3	781.3	784.3
167.5°	714.7	728.4	742.8	755.6	760.5	767.1	778.2	782.5	785.4	781.6	785.4
170°	721.9	733.8	746.4	756.8	760.5	766.5	777.6	781.3	783.6	779.9	783.6
172.5°	727.8	736.7	747.0	756.2	758.1	762.9	773.5	777.2	778.8	775.7	778.8
175°	733.8	739.0	746.4	752.3	751.6	754.6	763.5	766.5	769.4	765.0	769.4
177.5°	736.6	739.0	741.3	744.9	742.5	742.5	749.1	750.9	751.5	749.1	751.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2
2.5°	1672.2	1677.7	1684.6	1697.1	1715.1	1726.5	1718.4	1710.3	1718.4	1726.5	1715.1
5°	1563.8	1581.0	1603.5	1637.2	1682.1	1716.0	1716.8	1717.5	1716.8	1716.0	1682.1
7.5°	1459.8	1478.7	1503.5	1542.5	1595.7	1641.2	1663.7	1686.2	1663.7	1641.2	1595.7
10°	1402.7	1419.6	1442.0	1481.9	1539.2	1590.6	1624.7	1658.8	1624.7	1590.6	1539.2
12.5°	1365.7	1377.4	1394.0	1431.0	1488.3	1544.7	1598.5	1652.2	1598.5	1544.7	1488.3
15°	1332.9	1334.2	1338.5	1365.4	1414.7	1471.9	1553.1	1634.3	1553.1	1471.9	1414.7
17.5°	1316.0	1306.7	1297.4	1311.8	1349.7	1400.1	1487.5	1574.9	1487.5	1400.1	1349.7
20°	1305.4	1290.2	1272.8	1280.7	1314.1	1360.7	1446.9	1533.2	1446.9	1360.7	1314.1
22.5°	1287.4	1271.9	1252.7	1256.1	1281.9	1323.1	1410.5	1497.9	1410.5	1323.1	1281.9
25°	1250.5	1238.5	1221.8	1217.1	1224.4	1254.5	1353.0	1451.6	1353.0	1254.5	1224.4
27.5°	1207.0	1199.0	1188.9	1179.5	1171.0	1190.3	1293.2	1396.2	1293.2	1190.3	1171.0
30°	1181.6	1171.6	1161.5	1149.5	1135.7	1151.2	1254.1	1357.0	1254.1	1151.2	1135.7
32.5°	1185.9	1162.5	1138.4	1116.0	1095.3	1106.4	1212.8	1319.2	1212.8	1106.4	1095.3
35°	1188.8	1141.2	1101.3	1068.7	1043.3	1052.0	1162.9	1273.8	1162.9	1052.0	1043.3
37.5°	1119.0	1087.6	1053.2	1018.9	984.5	988.4	1107.3	1226.2	1107.3	988.4	984.5
40°	1091.2	1071.1	1026.8	984.1	942.7	942.9	1067.6	1192.3	1067.6	942.9	942.7
42.5°	1065.2	1044.1	986.5	939.4	902.7	906.4	1031.1	1155.8	1031.1	906.4	902.7
45°	910.7	915.0	899.8	873.7	836.7	841.4	971.2	1101.0	971.2	841.4	836.7
47.5°	765.0	796.7	830.8	827.9	788.0	789.0	912.7	1036.4	912.7	789.0	788.0
50°	700.6	745.4	799.8	804.1	758.4	753.4	870.1	986.8	870.1	753.4	758.4
52.5°	647.1	704.1	776.4	785.1	730.2	716.7	827.6	938.5	827.6	716.7	730.2
55°	576.8	651.9	751.2	762.8	686.7	656.2	762.8	869.3	762.8	656.2	686.7
57.5°	515.4	579.0	665.1	677.3	615.6	594.4	695.2	795.9	695.2	594.4	615.6
60°	476.8	522.5	581.9	593.5	557.3	554.6	652.4	750.3	652.4	554.6	557.3
62.5°	429.8	461.2	501.5	515.1	502.0	515.6	608.8	702.0	608.8	515.6	502.0
65°	344.1	369.2	402.5	422.1	427.9	453.4	538.2	623.1	538.2	453.4	427.9
67.5°	278.1	301.5	326.9	346.3	359.8	388.4	462.3	536.3	462.3	388.4	359.8
70°	222.2	246.3	274.6	297.8	315.9	345.8	411.0	476.3	411.0	345.8	315.9
72.5°	181.3	201.9	225.0	247.6	269.8	300.4	356.4	412.3	356.4	300.4	269.8
75°	117.1	133.2	154.2	177.1	201.7	231.4	276.4	321.3	276.4	231.4	201.7
77.5°	87.1	95.0	105.6	121.5	142.7	166.7	199.5	232.3	199.5	166.7	142.7
80°	70.3	70.7	71.4	82.6	104.4	126.9	151.5	176.2	151.5	126.9	104.4
82.5°	55.8	55.0	54.0	60.0	73.1	87.4	105.7	124.0	105.7	87.4	73.1
85°	25.9	28.3	31.2	33.3	34.8	38.1	46.8	55.5	46.8	38.1	34.8
87.5°	9.6	9.5	9.5	10.2	11.5	12.4	12.2	12.2	12.2	12.2	11.8
90°	15.6	14.9	14.9	14.1	11.9	8.9	5.2	2.2	5.2	8.2	13.4
92.5°	18.6	18.4	17.2	15.9	13.1	13.1	12.9	8.2	14.1	20.1	28.8
95°	17.1	17.1	20.1	25.3	37.2	37.9	25.3	23.0	32.7	46.1	58.0
97.5°	46.2	55.0	67.5	69.9	66.2	49.4	47.3	44.0	59.9	73.2	92.3
100°	85.5	96.6	105.6	87.7	69.1	68.4	63.9	62.4	79.5	92.2	110.8
102.5°	133.7	137.1	106.2	96.1	91.7	88.6	81.8	80.9	98.0	115.4	131.0
105°	145.0	130.1	130.8	130.8	127.9	121.9	109.3	108.5	127.9	147.9	167.3
107.5°	170.5	172.8	176.6	175.7	172.3	156.4	141.5	138.1	155.5	179.6	200.9
110°	204.4	206.7	208.2	206.7	201.5	181.4	163.6	158.3	174.0	199.2	222.3



TEST NUMBER: P1427873

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	237.2	238.8	242.1	237.6	228.8	205.8	185.6	178.0	193.6	219.5	243.1
115°	289.2	289.2	289.9	287.7	269.9	246.1	219.3	208.2	221.5	245.3	271.4
117.5°	340.3	341.2	338.3	332.3	311.6	284.0	254.0	236.1	246.7	271.8	298.6
120°	372.5	373.9	371.0	362.0	342.0	310.8	276.6	255.7	263.9	288.4	315.2
122.5°	405.8	405.5	401.9	391.8	368.1	335.7	302.1	276.6	280.0	302.7	328.9
125°	452.0	451.3	448.3	436.4	411.9	378.4	339.0	307.8	303.3	322.6	349.4
127.5°	496.0	494.4	489.8	475.3	450.2	418.0	374.7	339.3	329.3	341.5	366.1
130°	526.3	524.1	515.9	500.3	475.8	445.3	401.4	361.3	347.2	354.6	376.2
132.5°	555.5	549.1	542.1	525.3	502.6	470.9	426.4	384.5	365.0	368.3	385.1
135°	592.5	586.6	577.6	561.3	539.7	508.5	463.9	418.5	391.8	388.8	398.5
137.5°	625.1	618.8	608.7	594.6	572.9	545.1	502.3	454.4	420.6	410.7	414.4
140°	645.3	637.9	628.9	614.8	595.5	566.5	524.9	478.8	440.9	426.7	424.5
142.5°	661.9	656.3	646.8	633.8	616.9	587.9	547.5	502.0	461.7	443.4	438.2
145°	686.9	682.5	672.1	660.2	646.0	617.0	579.9	534.5	494.4	470.6	459.4
147.5°	708.0	704.5	696.3	682.3	670.4	642.6	608.7	568.6	527.4	497.9	483.5
150°	721.1	718.1	710.0	696.6	684.7	658.7	626.0	588.8	549.4	518.2	499.6
152.5°	733.6	730.6	721.3	707.9	697.8	673.5	643.8	608.4	568.4	537.2	518.0
155°	750.1	746.4	737.5	724.8	715.9	693.6	666.1	634.9	600.7	568.0	546.4
157.5°	763.2	758.6	750.3	739.4	729.9	709.4	685.4	658.5	628.6	597.4	575.4
160°	770.9	765.7	756.8	747.1	738.2	718.9	697.3	672.8	645.3	617.0	593.3
162.5°	776.3	771.7	761.0	752.5	744.8	727.2	706.8	684.7	660.2	635.5	613.5
165°	782.1	776.9	765.7	759.0	752.3	737.5	719.6	701.8	681.0	660.9	643.1
167.5°	782.5	778.2	767.1	760.5	755.6	742.8	728.4	714.7	698.5	682.8	667.9
170°	781.3	777.6	766.5	760.5	756.8	746.4	733.8	721.9	709.2	695.8	684.0
172.5°	777.2	773.5	762.9	758.1	756.2	747.0	736.7	727.8	717.0	707.1	697.6
175°	766.5	763.5	754.6	751.6	752.3	746.4	739.0	733.8	727.1	721.1	715.9
177.5°	750.9	749.1	742.5	742.5	744.9	741.3	739.0	736.6	733.6	731.8	730.0
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1427873

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2	1714.2
2.5°	1697.1	1684.6	1677.7	1672.2	1671.0	1669.9	1671.0	1672.2	1677.7	1684.6	1697.1
5°	1637.2	1603.5	1581.0	1563.8	1562.4	1560.9	1562.4	1563.8	1581.0	1603.5	1637.2
7.5°	1542.5	1503.5	1478.7	1459.8	1458.7	1457.5	1458.7	1459.8	1478.7	1503.5	1542.5
10°	1481.9	1442.0	1419.6	1402.7	1402.7	1402.7	1402.7	1402.7	1419.6	1442.0	1481.9
12.5°	1431.0	1394.0	1377.4	1365.7	1369.2	1372.7	1369.2	1365.7	1377.4	1394.0	1431.0
15°	1365.4	1338.5	1334.2	1332.9	1340.9	1348.9	1340.9	1332.9	1334.2	1338.5	1365.4
17.5°	1311.8	1297.4	1306.7	1316.0	1325.2	1334.5	1325.2	1316.0	1306.7	1297.4	1311.8
20°	1280.7	1272.8	1290.2	1305.4	1314.1	1322.8	1314.1	1305.4	1290.2	1272.8	1280.7
22.5°	1256.1	1252.7	1271.9	1287.4	1292.0	1296.7	1292.0	1287.4	1271.9	1252.7	1256.1
25°	1217.1	1221.8	1238.5	1250.5	1248.3	1246.1	1248.3	1250.5	1238.5	1221.8	1217.1
27.5°	1179.5	1188.9	1199.0	1207.0	1208.3	1209.6	1208.3	1207.0	1199.0	1188.9	1179.5
30°	1149.5	1161.5	1171.6	1181.6	1191.0	1200.4	1191.0	1181.6	1171.6	1161.5	1149.5
32.5°	1116.0	1138.4	1162.5	1185.9	1207.6	1229.2	1207.6	1185.9	1162.5	1138.4	1116.0
35°	1068.7	1101.3	1141.2	1188.8	1259.9	1330.9	1259.9	1188.8	1141.2	1101.3	1068.7
37.5°	1018.9	1053.2	1087.6	1119.0	1141.6	1164.2	1141.6	1119.0	1087.6	1053.2	1018.9
40°	984.1	1026.8	1071.1	1091.2	1039.0	986.8	1039.0	1091.2	1071.1	1026.8	984.1
42.5°	939.4	986.5	1044.1	1065.2	977.1	888.9	977.1	1065.2	1044.1	986.5	939.4
45°	873.7	899.8	915.0	910.7	847.6	784.5	847.6	910.7	915.0	899.8	873.7
47.5°	827.9	830.8	796.7	765.0	740.3	715.7	740.3	765.0	796.7	830.8	827.9
50°	804.1	799.8	745.4	700.6	684.7	668.7	684.7	700.6	745.4	799.8	804.1
52.5°	785.1	776.4	704.1	647.1	636.4	625.7	636.4	647.1	704.1	776.4	785.1
55°	762.8	751.2	651.9	576.8	574.7	572.5	574.7	576.8	651.9	751.2	762.8
57.5°	677.3	665.1	579.0	515.4	519.1	522.9	519.1	515.4	579.0	665.1	677.3
60°	593.5	581.9	522.5	476.8	472.5	468.1	472.5	476.8	522.5	581.9	593.5
62.5°	515.1	501.5	461.2	429.8	425.5	421.1	425.5	429.8	461.2	501.5	515.1
65°	422.1	402.5	369.2	344.1	344.1	344.1	344.1	344.1	369.2	402.5	422.1
67.5°	346.3	326.9	301.5	278.1	260.7	243.4	260.7	278.1	301.5	326.9	346.3
70°	297.8	274.6	246.3	222.2	210.6	199.0	210.6	222.2	246.3	274.6	297.8
72.5°	247.6	225.0	201.9	181.3	168.0	154.6	168.0	181.3	201.9	225.0	247.6
75°	177.1	154.2	133.2	117.1	115.6	114.2	115.6	117.1	133.2	154.2	177.1
77.5°	121.5	105.6	95.0	87.1	87.3	87.4	87.3	87.1	95.0	105.6	121.5
80°	82.6	71.4	70.7	70.3	71.0	71.8	71.0	70.3	70.7	71.4	82.6
82.5°	60.0	54.0	55.0	55.8	56.0	56.1	56.0	55.8	55.0	54.0	60.0
85°	33.3	31.2	28.3	25.9	25.2	24.5	25.2	25.9	28.3	31.2	33.3
87.5°	10.8	11.0	12.0	12.6	13.2	12.9	13.2	12.6	12.0	11.0	10.8
90°	17.1	22.3	27.5	30.5	33.5	32.0	33.5	30.5	22.3	17.1	17.1
92.5°	34.3	43.1	49.5	54.9	57.2	56.9	57.2	49.5	43.1	34.3	34.3
95°	69.1	79.5	90.0	97.4	101.8	100.4	101.8	97.4	90.0	79.5	69.1
97.5°	106.6	120.6	132.2	139.2	143.6	146.6	143.6	139.2	132.2	120.6	106.6
100°	131.6	145.0	158.3	166.5	174.0	176.9	174.0	166.5	158.3	145.0	131.6
102.5°	151.8	169.4	183.9	192.7	198.9	201.9	198.9	192.7	183.9	169.4	151.8
105°	185.1	203.7	219.3	230.5	237.2	239.4	237.2	230.5	219.3	203.7	185.1
107.5°	218.4	237.6	252.0	264.4	272.5	277.3	272.5	264.4	252.0	237.6	218.4
110°	244.6	260.2	275.8	287.0	295.1	298.1	295.1	287.0	275.8	260.2	244.6



TEST NUMBER: P1427873

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	266.6	284.0	299.6	310.8	320.1	324.3	320.1	310.8	299.6	284.0	266.6
115°	297.4	320.4	334.5	344.9	351.6	355.4	351.6	344.9	334.5	320.4	297.4
117.5°	322.9	347.0	362.5	370.5	373.6	376.3	373.6	370.5	362.5	347.0	322.9
120°	339.0	361.3	379.1	389.6	393.3	394.8	393.3	389.6	379.1	361.3	339.0
122.5°	353.9	375.0	392.2	405.0	411.1	412.6	411.1	405.0	392.2	375.0	353.9
125°	374.7	394.8	412.6	425.2	431.9	435.6	431.9	425.2	412.6	394.8	374.7
127.5°	392.8	414.5	430.9	442.3	448.9	451.9	448.9	442.3	430.9	414.5	392.8
130°	402.9	425.2	441.6	454.2	460.2	463.2	460.2	454.2	441.6	425.2	402.9
132.5°	410.7	434.2	451.1	462.6	469.1	472.1	469.1	462.6	451.1	434.2	410.7
135°	420.0	444.6	462.4	473.6	479.5	482.5	479.5	473.6	462.4	444.6	420.0
137.5°	428.2	450.5	469.1	480.8	486.2	488.1	486.2	480.8	469.1	450.5	428.2
140°	434.2	453.5	472.1	483.2	489.2	489.9	489.2	483.2	472.1	453.5	434.2
142.5°	441.9	457.1	473.3	484.4	490.4	491.7	490.4	484.4	473.3	457.1	441.9
145°	455.7	464.6	475.8	486.2	491.4	492.9	491.4	486.2	475.8	464.6	455.7
147.5°	473.1	475.9	481.7	488.6	493.6	494.7	493.6	488.6	481.7	475.9	473.1
150°	486.2	485.5	487.7	492.1	496.6	495.9	496.6	492.1	487.7	485.5	486.2
152.5°	501.1	496.8	496.6	498.7	500.8	500.6	500.8	498.7	496.6	496.8	501.1
155°	526.3	518.2	513.7	512.2	512.2	511.5	512.2	512.2	513.7	518.2	526.3
157.5°	554.1	542.7	536.0	532.4	531.4	529.8	531.4	532.4	536.0	542.7	554.1
160°	573.2	560.5	553.9	547.9	545.7	543.4	545.7	547.9	553.9	560.5	573.2
162.5°	591.0	579.0	571.7	566.3	564.1	560.7	564.1	566.3	571.7	579.0	591.0
165°	620.0	607.4	599.2	594.7	591.8	588.8	591.8	594.7	599.2	607.4	620.0
167.5°	649.0	635.2	629.8	624.8	621.9	616.6	621.9	624.8	629.8	635.2	649.0
170°	666.9	654.2	651.2	646.8	641.6	635.6	641.6	646.8	651.2	654.2	666.9
172.5°	682.3	673.8	670.9	666.4	664.8	660.0	664.8	666.4	670.9	673.8	682.3
175°	704.8	698.1	698.1	697.3	695.1	690.6	695.1	697.3	698.1	698.1	704.8
177.5°	723.5	719.9	722.3	722.3	721.7	717.6	721.7	722.3	722.3	719.9	723.5
180°	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0	736.0



TEST NUMBER: P1427873

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1714.2	1714.2	1714.2	1714.2
2.5°	1715.1	1726.5	1718.4	1710.3
5°	1682.1	1716.0	1716.8	1717.5
7.5°	1595.7	1641.2	1663.7	1686.2
10°	1539.2	1590.6	1624.7	1658.8
12.5°	1488.3	1544.7	1598.5	1652.2
15°	1414.7	1471.9	1553.1	1634.3
17.5°	1349.7	1400.1	1487.5	1574.9
20°	1314.1	1360.7	1446.9	1533.2
22.5°	1281.9	1323.1	1410.5	1497.9
25°	1224.4	1254.5	1353.0	1451.6
27.5°	1171.0	1190.3	1293.2	1396.2
30°	1135.7	1151.2	1254.1	1357.0
32.5°	1095.3	1106.4	1212.8	1319.2
35°	1043.3	1052.0	1162.9	1273.8
37.5°	984.5	988.4	1107.3	1226.2
40°	942.7	942.9	1067.6	1192.3
42.5°	902.7	906.4	1031.1	1155.8
45°	836.7	841.4	971.2	1101.0
47.5°	788.0	789.0	912.7	1036.4
50°	758.4	753.4	870.1	986.8
52.5°	730.2	716.7	827.6	938.5
55°	686.7	656.2	762.8	869.3
57.5°	615.6	594.4	695.2	795.9
60°	557.3	554.6	652.4	750.3
62.5°	502.0	515.6	608.8	702.0
65°	427.9	453.4	538.2	623.1
67.5°	359.8	388.4	462.3	536.3
70°	315.9	345.8	411.0	476.3
72.5°	269.8	300.4	356.4	412.3
75°	201.7	231.4	276.4	321.3
77.5°	142.7	166.7	199.5	232.3
80°	104.4	126.9	151.5	176.2
82.5°	73.1	87.4	105.7	124.0
85°	34.8	38.1	46.8	55.5
87.5°	11.8	12.2	12.2	12.2
90°	13.4	8.2	5.2	2.2
92.5°	28.8	20.1	14.1	8.2
95°	58.0	46.1	32.7	23.0
97.5°	92.3	73.2	59.9	44.0
100°	110.8	92.2	79.5	62.4
102.5°	131.0	115.4	98.0	80.9
105°	167.3	147.9	127.9	108.5
107.5°	200.9	179.6	155.5	138.1
110°	222.3	199.2	174.0	158.3



TEST NUMBER: P1427873

CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	243.1	219.5	193.6	178.0
115°	271.4	245.3	221.5	208.2
117.5°	298.6	271.8	246.7	236.1
120°	315.2	288.4	263.9	255.7
122.5°	328.9	302.7	280.0	276.6
125°	349.4	322.6	303.3	307.8
127.5°	366.1	341.5	329.3	339.3
130°	376.2	354.6	347.2	361.3
132.5°	385.1	368.3	365.0	384.5
135°	398.5	388.8	391.8	418.5
137.5°	414.4	410.7	420.6	454.4
140°	424.5	426.7	440.9	478.8
142.5°	438.2	443.4	461.7	502.0
145°	459.4	470.6	494.4	534.5
147.5°	483.5	497.9	527.4	568.6
150°	499.6	518.2	549.4	588.8
152.5°	518.0	537.2	568.4	608.4
155°	546.4	568.0	600.7	634.9
157.5°	575.4	597.4	628.6	658.5
160°	593.3	617.0	645.3	672.8
162.5°	613.5	635.5	660.2	684.7
165°	643.1	660.9	681.0	701.8
167.5°	667.9	682.8	698.5	714.7
170°	684.0	695.8	709.2	721.9
172.5°	697.6	707.1	717.0	727.8
175°	715.9	721.1	727.1	733.8
177.5°	730.0	731.8	733.6	736.6
180°	736.0	736.0	736.0	736.0



TEST NUMBER: P1427873
 CATALOG NUMBER: SQ2W-PH1-K-050U-075D-L830-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	19.60	20.60	20.43	21.45	22.51	18.43	19.42	19.26	20.28	21.33
	3H	21.79	22.68	22.63	23.54	24.62	19.49	20.38	20.34	21.24	22.33
	4H	22.61	23.45	23.47	24.31	25.41	19.74	20.58	20.60	21.45	22.55
	6H	23.08	23.85	23.95	24.73	25.84	19.89	20.66	20.76	21.54	22.65
	8H	23.24	23.97	24.12	24.87	25.98	19.95	20.69	20.83	21.58	22.69
	12H	23.30	24.00	24.19	24.89	26.03	19.97	20.67	20.86	21.56	22.69
4H	2H	20.06	20.89	20.92	21.76	22.86	19.13	19.97	20.00	20.84	21.94
	3H	22.32	23.02	23.20	23.92	25.03	20.37	21.07	21.25	21.97	23.09
	4H	23.20	23.83	24.09	24.73	25.87	20.67	21.31	21.56	22.20	23.34
	6H	23.77	24.31	24.67	25.23	26.38	20.88	21.42	21.78	22.35	23.49
	8H	23.97	24.48	24.88	25.40	26.55	20.97	21.48	21.88	22.40	23.55
	12H	24.06	24.52	24.99	25.45	26.62	21.00	21.46	21.93	22.39	23.55
8H	4H	23.23	23.74	24.14	24.66	25.81	20.91	21.42	21.82	22.34	23.49
	6H	23.87	24.29	24.80	25.24	26.40	21.18	21.61	22.12	22.56	23.72
	8H	24.13	24.50	25.07	25.45	26.62	21.33	21.71	22.28	22.65	23.83
	12H	24.27	24.60	25.21	25.54	26.76	21.40	21.73	22.35	22.67	23.89
12H	4H	23.19	23.65	24.11	24.58	25.74	20.91	21.37	21.84	22.31	23.47
	6H	23.84	24.22	24.79	25.17	26.34	21.22	21.59	22.16	22.54	23.72
	8H	24.12	24.45	25.07	25.39	26.61	21.39	21.72	22.33	22.66	23.88