

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: P1191267

Luminaire Tested: SQ2-FA-050U-100D-L935-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191267
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2502-345-2)
Test Lab: INNOVATION CENTER
Issue Date: 9/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-FA-050U-100D-L935-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

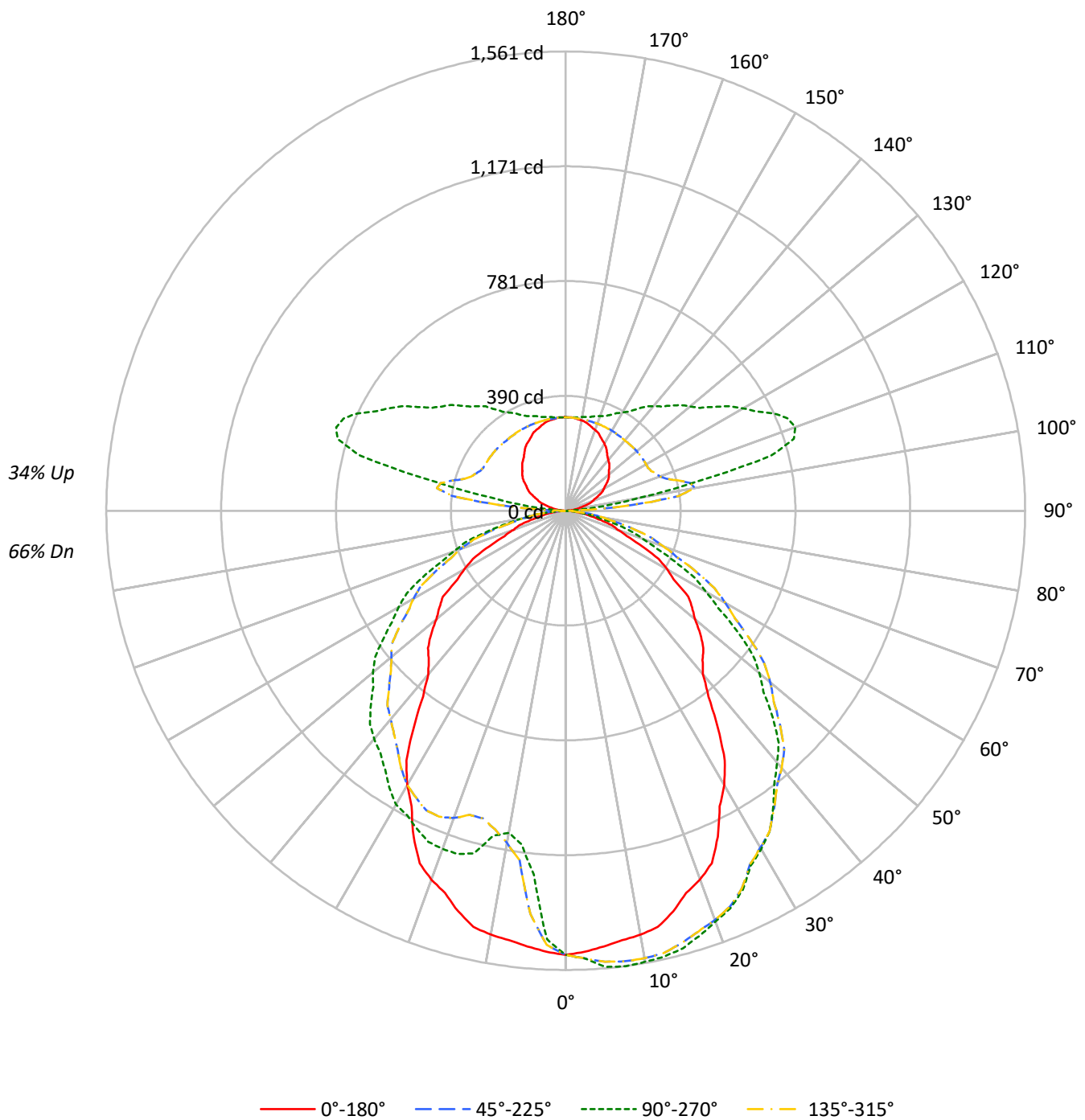
Lumens per Lamp: N/A
Luminaire Lumens: 5724.6 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.4
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	63	61	60
2	92	85	79	73	87	80	75	70	71	67	63	63	60	57	55	53	50
3	84	75	67	61	79	71	64	58	63	57	53	56	51	48	49	46	43
4	77	66	58	52	72	63	55	50	56	50	45	49	45	41	44	40	37
5	71	59	51	45	66	56	48	43	50	44	39	44	40	36	39	35	32
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	28
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	28	25
8	56	44	36	30	53	41	34	29	37	31	27	34	28	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24377	24377	24377	24377
5°	24091	25229	24091	20107
10°	23986	25520	23986	18230
15°	23574	25725	23574	20150
20°	22924	25539	22924	21014
25°	21788	25333	21788	21268
30°	20074	24766	20074	21492
35°	17763	24222	17763	21108
40°	15293	23558	15293	21338
45°	15100	22715	15100	21379
50°	14405	21607	14405	21461
55°	14331	19933	14331	21250
60°	12849	17764	12849	21164
65°	10953	15648	10953	20569
70°	8842	13261	8842	19062
75°	7667	10954	7667	17523
80°	6527	8164	6527	14142
85°	4335	4335	4335	8670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 23516 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	2.4
10°-20°	379.6	6.6
20°-30°	576.5	10.1
30°-40°	676.7	11.8
40°-50°	686.7	12.0
50°-60°	601.6	10.5
60°-70°	426.8	7.5
70°-80°	219.8	3.8
80°-90°	46.5	0.8
90°-100°	126.6	2.2
100°-110°	401.7	7.0
110°-120°	393.9	6.9
120°-130°	320.5	5.6
130°-140°	261.3	4.6
140°-150°	203.8	3.6
150°-160°	146.8	2.6
160°-170°	89.7	1.6
170°-180°	30.3	0.5
0°-30°	1091.9	19.1
0°-40°	1768.6	30.9
0°-60°	3057.0	53.4
0°-90°	3750.0	65.5
90°-120°	922.2	16.1
90°-150°	1707.8	29.8
90°-180°	1975.0	34.5
0°-180°	5724.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1510	1510	1510	1510	1510	
5°	1486	1557	1486	1241	1486	141
15°	1410	1539	1410	1206	1410	396
25°	1223	1422	1223	1194	1223	558
35°	901	1229	901	1071	901	561
45°	661	995	661	936	661	506
55°	509	708	509	755	509	440
65°	287	410	287	538	287	286
75°	123	176	123	281	123	133
85°	23	23	23	47	23	29
90°	0	3	0	3	0	1
95°	17	55	17	55	17	20
105°	70	723	70	723	70	74
115°	125	782	125	782	125	123
125°	173	614	173	614	173	154
135°	209	505	209	505	209	161
145°	244	421	244	421	244	153
155°	278	359	278	359	278	128
165°	303	330	303	330	303	85
175°	317	318	317	318	317	30
180°	318	318	318	318	318	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1500.4	1523.3	1523.8	1523.8	1523.8	1523.8	1523.8	1523.3	1500.4	1500.4	1477.0
5°	1486.4	1526.4	1539.0	1545.2	1556.6	1545.2	1539.0	1526.4	1486.4	1469.2	1375.2
7.5°	1472.3	1526.1	1544.9	1555.6	1561.3	1555.6	1544.9	1526.1	1472.3	1395.7	1198.5
10°	1463.0	1525.9	1544.9	1550.9	1556.6	1550.9	1544.9	1525.9	1463.0	1308.5	1147.0
12.5°	1448.9	1516.4	1540.2	1546.2	1551.9	1546.2	1540.2	1516.4	1448.9	1230.3	1109.5
15°	1410.3	1501.8	1521.5	1533.3	1539.0	1533.3	1521.5	1501.8	1410.3	1164.3	1082.6
17.5°	1362.3	1473.3	1499.2	1509.9	1514.5	1509.9	1499.2	1473.3	1362.3	1104.8	1083.8
20°	1334.2	1454.4	1480.5	1486.4	1486.4	1486.4	1480.5	1454.4	1334.2	1076.7	1111.9
22.5°	1296.8	1430.7	1457.1	1458.4	1463.0	1458.4	1457.1	1430.7	1296.8	1043.9	1125.9
25°	1223.0	1377.5	1416.1	1410.6	1422.0	1410.6	1416.1	1377.5	1223.0	999.9	1123.6
27.5°	1132.9	1327.5	1355.3	1361.1	1361.1	1361.1	1355.3	1327.5	1132.9	956.7	1100.1
30°	1076.7	1294.2	1322.5	1328.4	1328.4	1328.4	1322.5	1294.2	1076.7	928.0	1076.7
32.5°	1006.5	1265.1	1289.7	1290.9	1290.9	1290.9	1289.7	1265.1	1006.5	898.9	1039.3
35°	901.2	1215.9	1234.7	1234.6	1228.9	1234.6	1234.7	1215.9	901.2	855.4	994.8
37.5°	795.9	1152.9	1178.6	1170.2	1164.5	1170.2	1178.6	1152.9	795.9	810.7	957.4
40°	725.6	1114.7	1141.1	1123.4	1117.7	1123.4	1141.1	1114.7	725.6	777.1	924.6
42.5°	688.2	1072.7	1099.0	1076.6	1070.9	1076.6	1099.0	1072.7	688.2	744.3	896.5
45°	661.3	1004.6	1029.9	1006.3	994.8	1006.3	1029.9	1004.6	661.3	695.6	848.5
47.5°	620.3	922.4	958.5	923.2	911.7	923.2	958.5	922.4	620.3	645.5	805.2
50°	573.5	871.0	907.0	871.7	860.2	871.7	907.0	871.0	573.5	607.8	772.4
52.5°	540.7	819.9	850.9	810.8	799.4	810.8	850.9	819.9	540.7	561.3	744.4
55°	509.1	743.7	766.6	725.2	708.1	725.2	766.6	743.7	509.1	491.9	690.5
57.5°	435.4	658.5	682.3	635.1	615.6	635.1	682.3	658.5	435.4	420.5	634.3
60°	397.9	598.2	626.1	578.7	550.1	578.7	626.1	598.2	397.9	369.3	596.9
62.5°	355.8	533.2	570.0	522.5	493.9	522.5	570.0	533.2	355.8	336.3	554.8
65°	286.7	441.2	485.7	438.2	409.6	438.2	485.7	441.2	286.7	298.2	485.7
67.5°	224.7	357.5	407.3	355.3	332.4	355.3	407.3	357.5	224.7	262.5	422.5
70°	187.3	301.7	351.1	303.8	280.9	303.8	351.1	301.7	187.3	238.8	380.4
72.5°	163.9	250.8	304.3	252.4	234.1	252.4	304.3	250.8	163.9	215.3	328.9
75°	122.9	174.4	234.1	187.0	175.6	187.0	234.1	174.4	122.9	174.4	257.5
77.5°	88.9	113.0	165.0	125.1	120.5	125.1	165.0	113.0	88.9	131.3	187.3
80°	70.2	75.9	122.9	87.8	87.8	87.8	122.9	75.9	70.2	98.8	140.4
82.5°	46.8	52.5	85.4	59.6	55.0	59.6	85.4	52.5	46.8	70.8	98.3
85°	23.4	23.4	35.1	23.4	23.4	23.4	35.1	23.4	23.4	34.9	46.8
87.5°	4.7	4.9	10.0	5.3	5.3	5.3	10.0	4.9	4.7	9.5	10.0
90°	0.0	1.0	3.0	3.0	3.0	3.0	3.0	1.0	0.0	1.0	3.0
92.5°	5.6	22.2	71.0	23.6	16.6	23.6	71.0	22.2	5.6	22.2	71.0
95°	17.0	51.2	230.0	85.3	55.0	85.3	230.0	51.2	17.0	51.2	230.0
97.5°	31.6	66.4	389.6	243.4	149.4	243.4	389.6	66.4	31.6	66.4	389.6
100°	42.0	75.2	444.0	404.7	263.0	404.7	444.0	75.2	42.0	75.2	444.0
102.5°	53.2	84.9	434.4	594.4	455.0	594.4	434.4	84.9	53.2	84.9	434.4
105°	70.0	98.3	396.0	754.2	722.9	754.2	396.0	98.3	70.0	98.3	396.0
107.5°	86.8	113.0	359.4	770.9	813.1	770.9	359.4	113.0	86.8	113.0	359.4
110°	98.0	123.4	341.0	751.7	829.9	751.7	341.0	123.4	98.0	123.4	341.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	109.2	133.0	330.6	718.6	817.9	718.6	330.6	133.0	109.2	133.0	330.6
115°	125.0	148.5	320.0	664.6	781.9	664.6	320.0	148.5	125.0	148.5	320.0
117.5°	140.4	162.7	315.8	612.6	730.9	612.6	315.8	162.7	140.4	162.7	315.8
120°	150.0	171.5	315.0	580.5	694.9	580.5	315.0	171.5	150.0	171.5	315.0
122.5°	159.6	180.3	315.0	554.8	661.3	554.8	315.0	180.3	159.6	180.3	315.0
125°	173.0	193.5	315.0	521.1	613.9	521.1	315.0	193.5	173.0	193.5	315.0
127.5°	184.8	204.5	315.0	495.0	574.1	495.0	315.0	204.5	184.8	204.5	315.0
130°	192.0	212.5	315.0	479.6	550.9	479.6	315.0	212.5	192.0	212.5	315.0
132.5°	199.2	219.7	314.2	467.4	531.8	467.4	314.2	219.7	199.2	219.7	314.2
135°	209.0	229.5	313.0	448.2	505.0	448.2	313.0	229.5	209.0	229.5	313.0
137.5°	218.6	240.1	312.8	429.9	480.6	429.9	312.8	240.1	218.6	240.1	312.8
140°	225.0	246.5	312.0	417.0	463.0	417.0	312.0	246.5	225.0	246.5	312.0
142.5°	233.0	253.7	312.8	404.1	447.0	404.1	312.8	253.7	233.0	253.7	312.8
145°	244.0	262.6	313.0	386.7	421.0	386.7	313.0	262.6	244.0	262.6	313.0
147.5°	255.0	270.8	313.2	371.4	399.4	371.4	313.2	270.8	255.0	270.8	313.2
150°	263.0	275.7	314.0	362.5	385.0	362.5	314.0	275.7	263.0	275.7	314.0
152.5°	269.4	280.5	314.0	355.2	373.8	355.2	314.0	280.5	269.4	280.5	314.0
155°	278.0	287.8	314.0	345.3	359.0	345.3	314.0	287.8	278.0	287.8	314.0
157.5°	287.2	293.8	315.0	339.2	348.6	339.2	315.0	293.8	287.2	293.8	315.0
160°	292.0	297.8	315.0	335.1	343.0	335.1	315.0	297.8	292.0	297.8	315.0
162.5°	296.8	301.1	315.0	331.9	337.4	331.9	315.0	301.1	296.8	301.1	315.0
165°	303.0	305.9	315.0	327.0	330.0	327.0	315.0	305.9	303.0	305.9	315.0
167.5°	308.8	309.6	316.0	323.6	326.2	323.6	316.0	309.6	308.8	309.6	316.0
170°	312.0	312.0	316.0	322.0	323.0	322.0	316.0	312.0	312.0	312.0	316.0
172.5°	313.6	314.4	316.0	320.4	320.6	320.4	316.0	314.4	313.6	314.4	316.0
175°	317.0	316.0	317.0	318.9	318.0	318.9	317.0	316.0	317.0	316.0	317.0
177.5°	318.0	317.2	317.2	318.7	317.2	318.7	317.2	317.2	318.0	317.2	317.2
180°	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0	318.0

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1462.9	1458.3	1462.9	1477.0	1500.4	1500.4
5°	1269.2	1240.6	1269.2	1375.2	1469.2	1486.4
7.5°	1153.8	1144.6	1153.8	1198.5	1395.7	1472.3
10°	1111.9	1111.9	1111.9	1147.0	1308.5	1463.0
12.5°	1107.7	1130.6	1107.7	1109.5	1230.3	1448.9
15°	1176.9	1205.5	1176.9	1082.6	1164.3	1410.3
17.5°	1200.2	1223.0	1200.2	1083.8	1104.8	1362.3
20°	1200.2	1223.0	1200.2	1111.9	1076.7	1334.2
22.5°	1195.5	1218.4	1195.5	1125.9	1043.9	1296.8
25°	1182.3	1193.8	1182.3	1123.6	999.9	1223.0
27.5°	1158.8	1166.9	1158.8	1100.1	956.7	1132.9
30°	1135.7	1152.8	1135.7	1076.7	928.0	1076.7
32.5°	1111.9	1115.4	1111.9	1039.3	898.9	1006.5
35°	1076.6	1070.9	1076.6	994.8	855.4	901.2
37.5°	1028.9	1035.8	1028.9	957.4	810.7	795.9
40°	1000.9	1012.4	1000.9	924.6	777.1	725.6
42.5°	972.8	984.3	972.8	896.5	744.3	688.2
45°	930.6	936.3	930.6	848.5	695.6	661.3
47.5°	881.4	887.1	881.4	805.2	645.5	620.3
50°	848.6	854.4	848.6	772.4	607.8	573.5
52.5°	811.2	816.9	811.2	744.4	561.3	540.7
55°	754.9	754.9	754.9	690.5	491.9	509.1
57.5°	690.7	697.5	690.7	634.3	420.5	435.4
60°	644.0	655.4	644.0	596.9	369.3	397.9
62.5°	601.7	608.6	601.7	554.8	336.3	355.8
65°	532.6	538.4	532.6	485.7	298.2	286.7
67.5°	455.4	460.0	455.4	422.5	262.5	224.7
70°	403.8	403.8	403.8	380.4	238.8	187.3
72.5°	352.4	357.0	352.4	328.9	215.3	163.9
75°	275.2	280.9	275.2	257.5	174.4	122.9
77.5°	197.9	203.6	197.9	187.3	131.3	88.9
80°	146.4	152.1	146.4	140.4	98.8	70.2
82.5°	104.2	105.3	104.2	98.3	70.8	46.8
85°	46.8	46.8	46.8	46.8	34.9	23.4
87.5°	10.0	10.0	10.0	10.0	9.5	4.7
90°	3.0	3.0	3.0	3.0	1.0	0.0
92.5°	23.6	16.6	23.6	71.0	22.2	5.6
95°	85.3	55.0	85.3	230.0	51.2	17.0
97.5°	243.4	149.4	243.4	389.6	66.4	31.6
100°	404.7	263.0	404.7	444.0	75.2	42.0
102.5°	594.4	455.0	594.4	434.4	84.9	53.2
105°	754.2	722.9	754.2	396.0	98.3	70.0
107.5°	770.9	813.1	770.9	359.4	113.0	86.8
110°	751.7	829.9	751.7	341.0	123.4	98.0

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	718.6	817.9	718.6	330.6	133.0	109.2
115°	664.6	781.9	664.6	320.0	148.5	125.0
117.5°	612.6	730.9	612.6	315.8	162.7	140.4
120°	580.5	694.9	580.5	315.0	171.5	150.0
122.5°	554.8	661.3	554.8	315.0	180.3	159.6
125°	521.1	613.9	521.1	315.0	193.5	173.0
127.5°	495.0	574.1	495.0	315.0	204.5	184.8
130°	479.6	550.9	479.6	315.0	212.5	192.0
132.5°	467.4	531.8	467.4	314.2	219.7	199.2
135°	448.2	505.0	448.2	313.0	229.5	209.0
137.5°	429.9	480.6	429.9	312.8	240.1	218.6
140°	417.0	463.0	417.0	312.0	246.5	225.0
142.5°	404.1	447.0	404.1	312.8	253.7	233.0
145°	386.7	421.0	386.7	313.0	262.6	244.0
147.5°	371.4	399.4	371.4	313.2	270.8	255.0
150°	362.5	385.0	362.5	314.0	275.7	263.0
152.5°	355.2	373.8	355.2	314.0	280.5	269.4
155°	345.3	359.0	345.3	314.0	287.8	278.0
157.5°	339.2	348.6	339.2	315.0	293.8	287.2
160°	335.1	343.0	335.1	315.0	297.8	292.0
162.5°	331.9	337.4	331.9	315.0	301.1	296.8
165°	327.0	330.0	327.0	315.0	305.9	303.0
167.5°	323.6	326.2	323.6	316.0	309.6	308.8
170°	322.0	323.0	322.0	316.0	312.0	312.0
172.5°	320.4	320.6	320.4	316.0	314.4	313.6
175°	318.9	318.0	318.9	317.0	316.0	317.0
177.5°	318.7	317.2	318.7	317.2	317.2	318.0
180°	318.0	318.0	318.0	318.0	318.0	318.0

TEST NUMBER: P1191267

CATALOG NUMBER: SQ2-FA-050U-100D-L935-UNV-STD-W-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	18.77	19.78	19.58	20.62	21.65	19.99	21.01	20.80	21.85	22.88
	3H	19.87	20.78	20.69	21.63	22.69	21.25	22.16	22.07	23.00	24.06
	4H	20.23	21.09	21.07	21.94	23.01	21.65	22.51	22.49	23.36	24.43
	6H	20.40	21.19	21.25	22.05	23.14	21.81	22.61	22.67	23.47	24.55
	8H	20.44	21.20	21.30	22.07	23.16	21.84	22.60	22.71	23.48	24.56
	12H	20.44	21.16	21.31	22.03	23.14	21.83	22.55	22.70	23.42	24.53
4H	2H	19.72	20.58	20.56	21.43	22.50	20.63	21.49	21.47	22.34	23.41
	3H	21.10	21.82	21.96	22.70	23.79	22.09	22.81	22.95	23.69	24.78
	4H	21.55	22.20	22.42	23.08	24.20	22.57	23.22	23.44	24.10	25.21
	6H	21.79	22.35	22.67	23.26	24.37	22.80	23.36	23.68	24.27	25.38
	8H	21.85	22.37	22.74	23.27	24.40	22.85	23.37	23.74	24.27	25.40
	12H	21.86	22.33	22.77	23.25	24.38	22.84	23.32	23.75	24.24	25.37
8H	4H	21.96	22.49	22.85	23.39	24.52	22.79	23.31	23.68	24.21	25.34
	6H	22.31	22.75	23.23	23.69	24.82	23.11	23.54	24.02	24.48	25.61
	8H	22.43	22.81	23.36	23.75	24.90	23.20	23.59	24.13	24.52	25.67
	12H	22.47	22.81	23.40	23.74	24.94	23.22	23.56	24.15	24.49	25.68
12H	4H	21.97	22.45	22.88	23.37	24.50	22.76	23.24	23.67	24.16	25.29
	6H	22.39	22.77	23.31	23.71	24.85	23.13	23.51	24.05	24.45	25.59
	8H	22.54	22.88	23.47	23.80	25.00	23.25	23.59	24.18	24.51	25.71