

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: P1191272

Luminaire Tested: SQ2-FA-050U-125D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191272
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-125D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

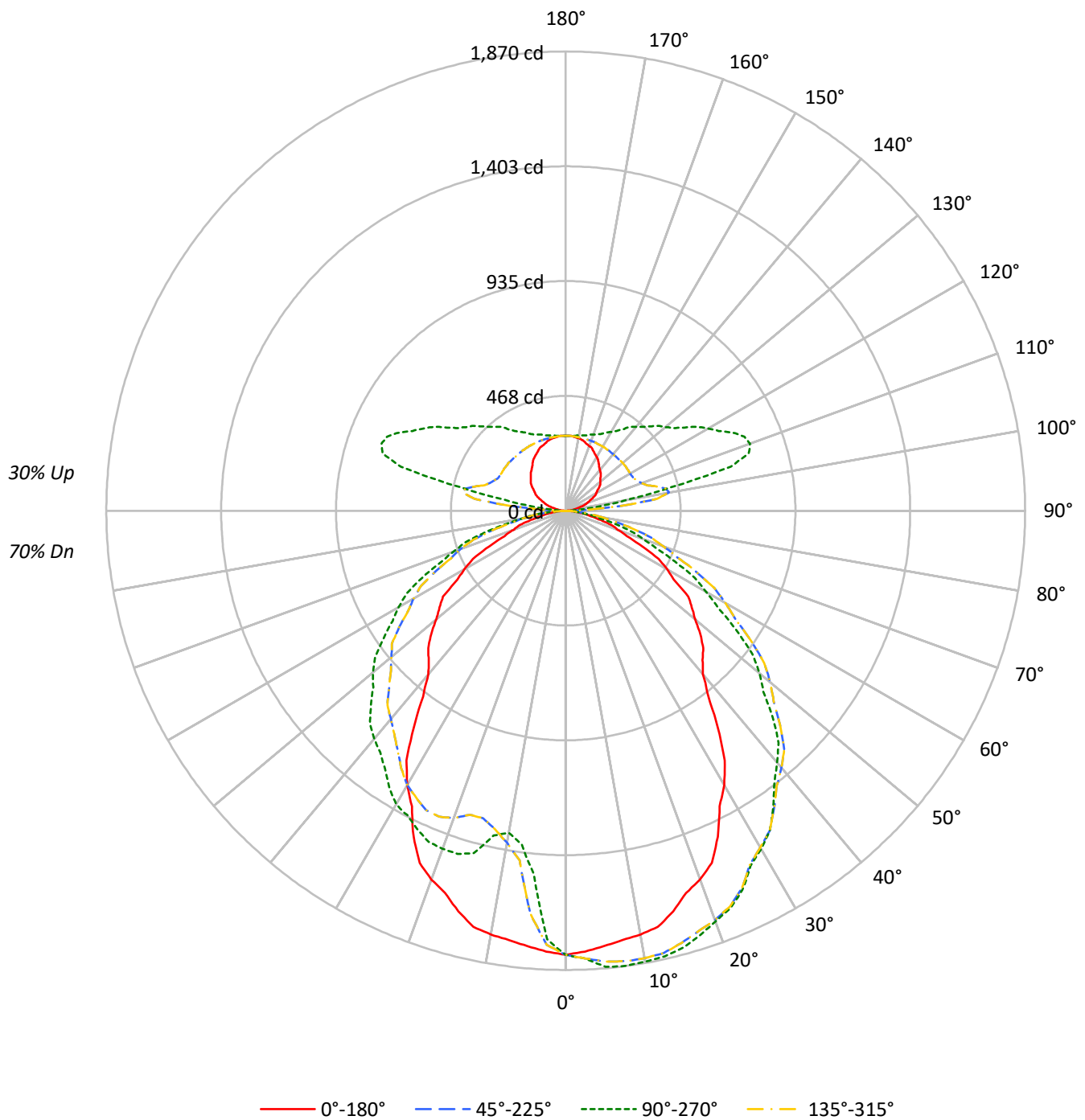
Lumens per Lamp: N/A
Luminaire Lumens: 6390.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64
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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75
1	103	98	94	91	97	93	90	86	83	81	78	75	73	71	66	65	64
2	93	86	80	74	88	81	76	71	73	69	65	66	62	59	59	56	54
3	85	76	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46
4	78	67	59	52	74	64	56	51	57	51	47	52	47	43	46	43	39
5	72	60	51	45	68	57	49	44	51	45	40	46	41	37	42	38	34
6	66	54	45	39	62	51	44	38	46	40	35	42	37	33	38	34	30
7	61	49	40	35	58	46	39	33	42	36	31	38	33	29	35	30	27
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	32	27	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29193	29193	29193	29193
5°	28851	30214	28851	24080
10°	28724	30563	28724	21830
15°	28232	30808	28232	24132
20°	27453	30586	27453	25167
25°	26094	30339	26094	25470
30°	24041	29658	24041	25739
35°	21271	29008	21271	25279
40°	18316	28211	18316	25554
45°	18082	27204	18082	25603
50°	17251	25877	17251	25701
55°	17163	23871	17163	25447
60°	15390	21274	15390	25346
65°	13119	18743	13119	24630
70°	10589	15881	10589	22829
75°	9183	13113	9183	20986
80°	7820	9772	7820	16941
85°	5187	5187	5187	10393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 28163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.7	2.5
10°-20°	454.6	7.1
20°-30°	690.4	10.8
30°-40°	810.5	12.7
40°-50°	822.4	12.9
50°-60°	720.5	11.3
60°-70°	511.1	8.0
70°-80°	263.2	4.1
80°-90°	55.6	0.9
90°-100°	121.8	1.9
100°-110°	386.3	6.0
110°-120°	378.8	5.9
120°-130°	308.3	4.8
130°-140°	251.4	3.9
140°-150°	196.0	3.1
150°-160°	141.2	2.2
160°-170°	86.3	1.3
170°-180°	29.1	0.5
0°-30°	1307.6	20.5
0°-40°	2118.1	33.1
0°-60°	3661.0	57.3
0°-90°	4490.8	70.3
90°-120°	887.0	13.9
90°-150°	1642.6	25.7
90°-180°	1899.0	29.7
0°-180°	6390.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1808	1808	1808	1808	1808	
5°	1780	1864	1780	1486	1780	169
15°	1689	1843	1689	1444	1689	474
25°	1465	1703	1465	1430	1465	669
35°	1079	1472	1079	1282	1079	672
45°	792	1191	792	1121	792	605
55°	610	848	610	904	610	527
65°	343	491	343	645	343	343
75°	147	210	147	336	147	159
85°	28	28	28	56	28	35
90°	0	3	0	3	0	2
95°	16	53	16	53	16	19
105°	67	695	67	695	67	71
115°	120	752	120	752	120	119
125°	166	590	166	590	166	148
135°	201	486	201	486	201	155
145°	235	405	235	405	235	147
155°	267	345	267	345	267	123
165°	291	317	291	317	291	82
175°	305	306	305	306	305	29
180°	306	306	306	306	306	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1808.1	1808.1	1808.1	1808.1	1808.1	1808.1	1808.1	1808.1	1808.1	1808.1	1808.1
2.5°	1796.9	1824.3	1824.9	1824.9	1824.9	1824.9	1824.9	1824.3	1796.9	1796.9	1768.8
5°	1780.1	1828.0	1843.1	1850.4	1850.4	1850.4	1843.1	1828.0	1780.1	1759.5	1646.9
7.5°	1763.2	1827.7	1850.1	1862.9	1869.8	1862.9	1850.1	1827.7	1763.2	1671.4	1435.3
10°	1752.0	1827.4	1850.1	1857.3	1864.2	1857.3	1850.1	1827.4	1752.0	1567.0	1373.6
12.5°	1735.2	1816.1	1844.5	1851.7	1858.5	1851.7	1844.5	1816.1	1735.2	1473.4	1328.7
15°	1689.0	1798.6	1822.1	1836.3	1843.1	1836.3	1822.1	1798.6	1689.0	1394.3	1296.5
17.5°	1631.5	1764.4	1795.5	1808.2	1813.7	1808.2	1795.5	1764.4	1631.5	1323.1	1297.9
20°	1597.8	1741.7	1773.0	1780.1	1780.1	1780.1	1773.0	1741.7	1597.8	1289.5	1331.5
22.5°	1553.0	1713.3	1745.0	1746.5	1752.0	1746.5	1745.0	1713.3	1553.0	1250.1	1348.4
25°	1464.7	1649.7	1696.0	1689.3	1703.0	1689.3	1696.0	1649.7	1464.7	1197.5	1345.6
27.5°	1356.8	1589.7	1623.1	1630.1	1630.1	1630.1	1623.1	1589.7	1356.8	1145.7	1317.5
30°	1289.5	1549.9	1583.8	1590.8	1590.8	1590.8	1583.8	1549.9	1289.5	1111.3	1289.5
32.5°	1205.4	1515.1	1544.6	1546.0	1546.0	1546.0	1544.6	1515.1	1205.4	1076.6	1244.6
35°	1079.2	1456.1	1478.7	1478.6	1471.7	1478.6	1478.7	1456.1	1079.2	1024.4	1191.4
37.5°	953.1	1380.7	1411.4	1401.5	1394.6	1401.5	1411.4	1380.7	953.1	970.9	1146.5
40°	869.0	1335.0	1366.6	1345.4	1338.5	1345.4	1366.6	1335.0	869.0	930.7	1107.3
42.5°	824.2	1284.6	1316.1	1289.3	1282.5	1289.3	1316.1	1284.6	824.2	891.3	1073.6
45°	791.9	1203.1	1233.4	1205.1	1191.4	1205.1	1233.4	1203.1	791.9	833.0	1016.2
47.5°	742.9	1104.7	1147.9	1105.6	1091.9	1105.6	1147.9	1104.7	742.9	773.0	964.3
50°	686.8	1043.1	1086.3	1043.9	1030.2	1043.9	1086.3	1043.1	686.8	727.9	925.1
52.5°	647.5	981.9	1019.0	971.0	957.3	971.0	1019.0	981.9	647.5	672.2	891.4
55°	609.7	890.7	918.1	868.5	848.0	868.5	918.1	890.7	609.7	589.1	827.0
57.5°	521.4	788.6	817.1	760.6	737.3	760.6	817.1	788.6	521.4	503.6	759.7
60°	476.6	716.4	749.9	693.0	658.8	693.0	749.9	716.4	476.6	442.3	714.8
62.5°	426.1	638.5	682.6	625.7	591.5	625.7	682.6	638.5	426.1	402.8	664.4
65°	343.4	528.4	581.7	524.8	490.6	524.8	581.7	528.4	343.4	357.1	581.7
67.5°	269.1	428.1	487.8	425.5	398.1	425.5	487.8	428.1	269.1	314.3	506.0
70°	224.3	361.3	420.5	363.8	336.4	363.8	420.5	361.3	224.3	285.9	455.5
72.5°	196.2	300.4	364.4	302.3	280.3	302.3	364.4	300.4	196.2	257.9	393.9
75°	147.2	208.8	280.3	223.9	210.2	223.9	280.3	208.8	147.2	208.8	308.4
77.5°	106.5	135.3	197.6	149.8	144.4	149.8	197.6	135.3	106.5	157.2	224.3
80°	84.1	90.9	147.2	105.1	105.1	105.1	147.2	90.9	84.1	118.4	168.2
82.5°	56.1	62.9	102.3	71.4	65.9	71.4	102.3	62.9	56.1	84.8	117.7
85°	28.0	28.0	42.0	28.0	28.0	28.0	42.0	28.0	28.0	41.7	56.1
87.5°	5.6	5.8	11.8	6.2	6.2	6.2	11.8	5.8	5.6	11.3	11.8
90°	0.0	0.9	2.9	2.9	2.9	2.9	2.9	0.9	0.0	0.9	2.9
92.5°	5.4	21.4	68.3	22.7	16.0	22.7	68.3	21.4	5.4	21.4	68.3
95°	16.3	49.3	221.2	82.0	52.9	82.0	221.2	49.3	16.3	49.3	221.2
97.5°	30.4	63.9	374.7	234.1	143.7	234.1	374.7	63.9	30.4	63.9	374.7
100°	40.4	72.4	427.0	389.3	252.9	389.3	427.0	72.4	40.4	72.4	427.0
102.5°	51.2	81.6	417.8	571.7	437.6	571.7	417.8	81.6	51.2	81.6	417.8
105°	67.3	94.6	380.8	725.4	695.3	725.4	380.8	94.6	67.3	94.6	380.8
107.5°	83.5	108.7	345.6	741.4	782.1	741.4	345.6	108.7	83.5	108.7	345.6
110°	94.2	118.7	327.9	723.0	798.2	723.0	327.9	118.7	94.2	118.7	327.9

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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°	105.0	128.0	317.9	691.1	786.7	691.1	317.9	128.0	105.0	128.0	317.9
115°	120.2	142.8	307.7	639.2	752.1	639.2	307.7	142.8	120.2	142.8	307.7
117.5°	135.0	156.5	303.7	589.2	703.0	589.2	303.7	156.5	135.0	156.5	303.7
120°	144.3	164.9	302.9	558.4	668.4	558.4	302.9	164.9	144.3	164.9	302.9
122.5°	153.5	173.4	302.9	533.6	636.1	533.6	302.9	173.4	153.5	173.4	302.9
125°	166.4	186.1	302.9	501.2	590.5	501.2	302.9	186.1	166.4	186.1	302.9
127.5°	177.7	196.7	302.9	476.0	552.2	476.0	302.9	196.7	177.7	196.7	302.9
130°	184.6	204.4	302.9	461.3	529.9	461.3	302.9	204.4	184.6	204.4	302.9
132.5°	191.6	211.3	302.2	449.6	511.4	449.6	302.2	211.3	191.6	211.3	302.2
135°	201.0	220.7	301.0	431.1	485.7	431.1	301.0	220.7	201.0	220.7	301.0
137.5°	210.2	230.9	300.8	413.5	462.2	413.5	300.8	230.9	210.2	230.9	300.8
140°	216.4	237.1	300.1	401.1	445.3	401.1	300.1	237.1	216.4	237.1	300.1
142.5°	224.1	244.0	300.8	388.7	429.9	388.7	300.8	244.0	224.1	244.0	300.8
145°	234.7	252.5	301.0	372.0	404.9	372.0	301.0	252.5	234.7	252.5	301.0
147.5°	245.2	260.5	301.2	357.2	384.1	357.2	301.2	260.5	245.2	260.5	301.2
150°	252.9	265.2	302.0	348.6	370.3	348.6	302.0	265.2	252.9	265.2	302.0
152.5°	259.1	269.8	302.0	341.6	359.5	341.6	302.0	269.8	259.1	269.8	302.0
155°	267.4	276.8	302.0	332.1	345.3	332.1	302.0	276.8	267.4	276.8	302.0
157.5°	276.2	282.6	302.9	326.2	335.3	326.2	302.9	282.6	276.2	282.6	302.9
160°	280.8	286.5	302.9	322.3	329.9	322.3	302.9	286.5	280.8	286.5	302.9
162.5°	285.4	289.6	302.9	319.2	324.5	319.2	302.9	289.6	285.4	289.6	302.9
165°	291.4	294.2	302.9	314.5	317.4	314.5	302.9	294.2	291.4	294.2	302.9
167.5°	297.0	297.7	303.9	311.3	313.7	311.3	303.9	297.7	297.0	297.7	303.9
170°	300.1	300.1	303.9	309.7	310.6	309.7	303.9	300.1	300.1	300.1	303.9
172.5°	301.6	302.3	303.9	308.1	308.3	308.1	303.9	302.3	301.6	302.3	303.9
175°	304.9	303.9	304.9	306.8	305.8	306.8	304.9	303.9	304.9	303.9	304.9
177.5°	305.8	305.1	305.1	306.6	305.1	306.6	305.1	305.1	305.8	305.1	305.1
180°	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1808.1	1808.1	1808.1	1808.1	1808.1	1808.1
2.5°	1751.9	1746.4	1751.9	1768.8	1796.9	1796.9
5°	1520.0	1485.7	1520.0	1646.9	1759.5	1780.1
7.5°	1381.7	1370.8	1381.7	1435.3	1671.4	1763.2
10°	1331.5	1331.5	1331.5	1373.6	1567.0	1752.0
12.5°	1326.6	1354.0	1326.6	1328.7	1473.4	1735.2
15°	1409.4	1443.7	1409.4	1296.5	1394.3	1689.0
17.5°	1437.3	1464.7	1437.3	1297.9	1323.1	1631.5
20°	1437.3	1464.7	1437.3	1331.5	1289.5	1597.8
22.5°	1431.7	1459.1	1431.7	1348.4	1250.1	1553.0
25°	1415.9	1429.7	1415.9	1345.6	1197.5	1464.7
27.5°	1387.8	1397.4	1387.8	1317.5	1145.7	1356.8
30°	1360.0	1380.6	1360.0	1289.5	1111.3	1289.5
32.5°	1331.6	1335.7	1331.6	1244.6	1076.6	1205.4
35°	1289.3	1282.5	1289.3	1191.4	1024.4	1079.2
37.5°	1232.2	1240.4	1232.2	1146.5	970.9	953.1
40°	1198.7	1212.4	1198.7	1107.3	930.7	869.0
42.5°	1165.1	1178.8	1165.1	1073.6	891.3	824.2
45°	1114.4	1121.3	1114.4	1016.2	833.0	791.9
47.5°	1055.6	1062.4	1055.6	964.3	773.0	742.9
50°	1016.3	1023.2	1016.3	925.1	727.9	686.8
52.5°	971.5	978.3	971.5	891.4	672.2	647.5
55°	904.0	904.0	904.0	827.0	589.1	609.7
57.5°	827.1	835.4	827.1	759.7	503.6	521.4
60°	771.2	784.9	771.2	714.8	442.3	476.6
62.5°	720.6	728.8	720.6	664.4	402.8	426.1
65°	637.9	644.7	637.9	581.7	357.1	343.4
67.5°	545.4	550.8	545.4	506.0	314.3	269.1
70°	483.6	483.6	483.6	455.5	285.9	224.3
72.5°	422.0	427.5	422.0	393.9	257.9	196.2
75°	329.5	336.4	329.5	308.4	208.8	147.2
77.5°	237.0	243.9	237.0	224.3	157.2	106.5
80°	175.4	182.2	175.4	168.2	118.4	84.1
82.5°	124.8	126.1	124.8	117.7	84.8	56.1
85°	56.1	56.1	56.1	56.1	41.7	28.0
87.5°	11.8	11.8	11.8	11.8	11.3	5.6
90°	2.9	2.9	2.9	2.9	0.9	0.0
92.5°	22.7	16.0	22.7	68.3	21.4	5.4
95°	82.0	52.9	82.0	221.2	49.3	16.3
97.5°	234.1	143.7	234.1	374.7	63.9	30.4
100°	389.3	252.9	389.3	427.0	72.4	40.4
102.5°	571.7	437.6	571.7	417.8	81.6	51.2
105°	725.4	695.3	725.4	380.8	94.6	67.3
107.5°	741.4	782.1	741.4	345.6	108.7	83.5
110°	723.0	798.2	723.0	327.9	118.7	94.2

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	691.1	786.7	691.1	317.9	128.0	105.0
115°	639.2	752.1	639.2	307.7	142.8	120.2
117.5°	589.2	703.0	589.2	303.7	156.5	135.0
120°	558.4	668.4	558.4	302.9	164.9	144.3
122.5°	533.6	636.1	533.6	302.9	173.4	153.5
125°	501.2	590.5	501.2	302.9	186.1	166.4
127.5°	476.0	552.2	476.0	302.9	196.7	177.7
130°	461.3	529.9	461.3	302.9	204.4	184.6
132.5°	449.6	511.4	449.6	302.2	211.3	191.6
135°	431.1	485.7	431.1	301.0	220.7	201.0
137.5°	413.5	462.2	413.5	300.8	230.9	210.2
140°	401.1	445.3	401.1	300.1	237.1	216.4
142.5°	388.7	429.9	388.7	300.8	244.0	224.1
145°	372.0	404.9	372.0	301.0	252.5	234.7
147.5°	357.2	384.1	357.2	301.2	260.5	245.2
150°	348.6	370.3	348.6	302.0	265.2	252.9
152.5°	341.6	359.5	341.6	302.0	269.8	259.1
155°	332.1	345.3	332.1	302.0	276.8	267.4
157.5°	326.2	335.3	326.2	302.9	282.6	276.2
160°	322.3	329.9	322.3	302.9	286.5	280.8
162.5°	319.2	324.5	319.2	302.9	289.6	285.4
165°	314.5	317.4	314.5	302.9	294.2	291.4
167.5°	311.3	313.7	311.3	303.9	297.7	297.0
170°	309.7	310.6	309.7	303.9	300.1	300.1
172.5°	308.1	308.3	308.1	303.9	302.3	301.6
175°	306.8	305.8	306.8	304.9	303.9	304.9
177.5°	306.6	305.1	306.6	305.1	305.1	305.8
180°	305.8	305.8	305.8	305.8	305.8	305.8

TEST NUMBER: P1191272

CATALOG NUMBER: SQ2-FA-050U-125D-L930-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	19.76	20.84	20.53	21.62	22.57	20.99	22.07	21.75	22.85	23.80
	3H	20.87	21.84	21.65	22.63	23.61	22.25	23.21	23.02	24.01	24.99
	4H	21.23	22.14	22.03	22.95	23.94	22.65	23.56	23.44	24.36	25.35
	6H	21.41	22.25	22.21	23.06	24.06	22.82	23.66	23.63	24.47	25.48
	8H	21.45	22.25	22.26	23.08	24.08	22.85	23.65	23.67	24.48	25.49
	12H	21.45	22.21	22.27	23.04	24.07	22.84	23.61	23.66	24.43	25.46
4H	2H	20.72	21.63	21.52	22.43	23.42	21.63	22.54	22.43	23.34	24.33
	3H	22.11	22.87	22.92	23.70	24.71	23.10	23.86	23.91	24.70	25.70
	4H	22.56	23.25	23.38	24.09	25.12	23.58	24.27	24.40	25.10	26.14
	6H	22.80	23.40	23.64	24.26	25.30	23.81	24.41	24.65	25.27	26.31
	8H	22.86	23.42	23.71	24.27	25.33	23.86	24.42	24.71	25.28	26.33
	12H	22.88	23.38	23.74	24.25	25.31	23.86	24.36	24.73	25.24	26.30
8H	4H	22.98	23.53	23.82	24.39	25.44	23.80	24.36	24.65	25.22	26.27
	6H	23.33	23.79	24.20	24.69	25.74	24.12	24.58	25.00	25.48	26.53
	8H	23.45	23.86	24.33	24.75	25.82	24.22	24.63	25.10	25.52	26.59
	12H	23.50	23.85	24.38	24.74	25.86	24.24	24.60	25.13	25.49	26.61
12H	4H	22.99	23.49	23.86	24.37	25.43	23.78	24.28	24.65	25.16	26.22
	6H	23.41	23.82	24.29	24.71	25.78	24.15	24.56	25.03	25.45	26.52
	8H	23.56	23.92	24.45	24.80	25.93	24.27	24.63	25.15	25.51	26.63