

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: P1191374

Luminaire Tested: SQ2-FA-150U-050D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191374
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-150U-050D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

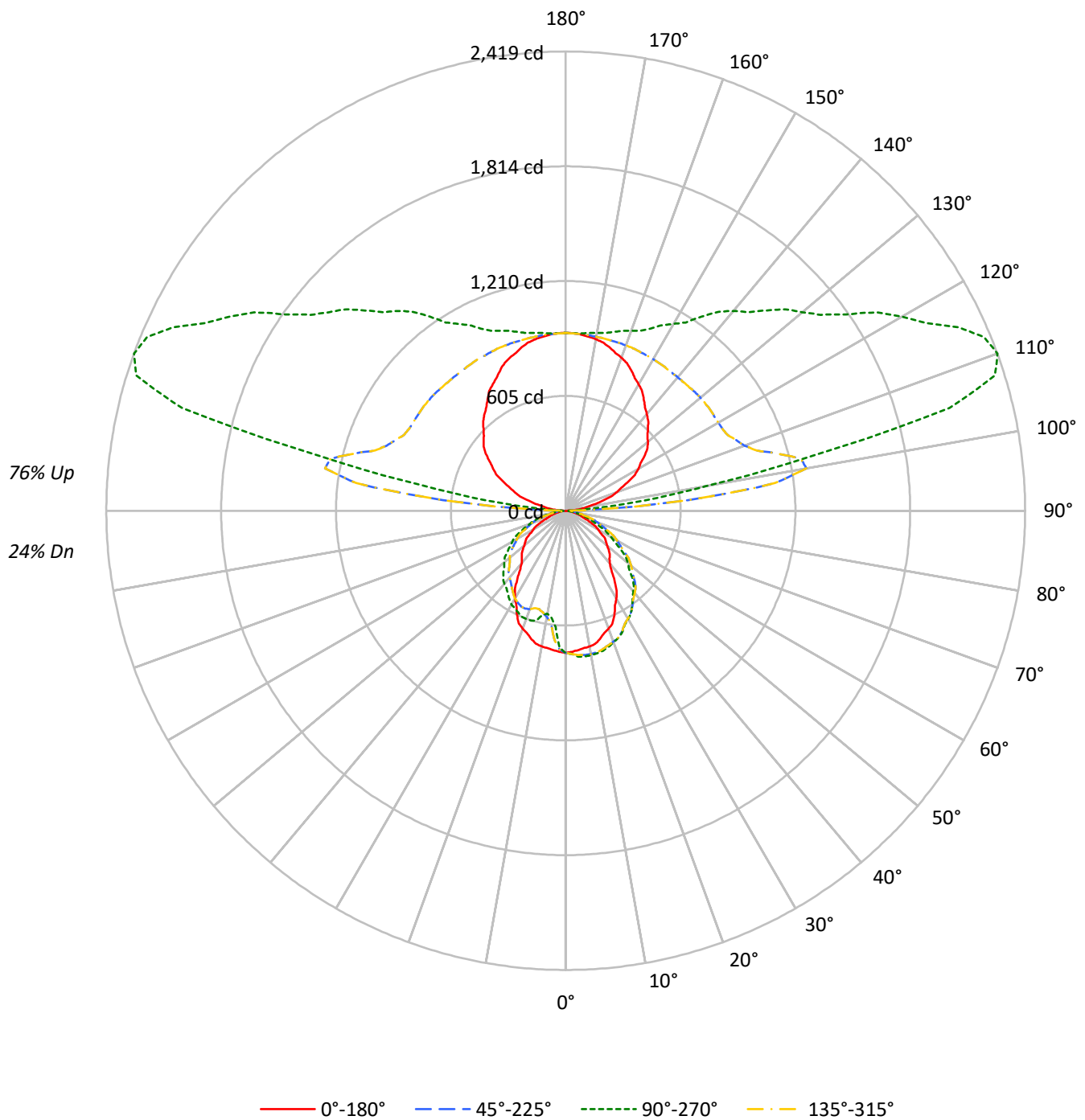
Lumens per Lamp: N/A
Luminaire Lumens: 7636.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.4
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33
1	92	88	84	81	82	78	75	73	60	58	57	44	43	42	29	28	28
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	25	24	23
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20
4	70	60	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13
7	54	42	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12088	12088	12088	12088
5°	11947	12511	11947	9971
10°	11895	12655	11895	9040
15°	11689	12757	11689	9992
20°	11368	12665	11368	10421
25°	10805	12563	10805	10546
30°	9954	12281	9954	10659
35°	8809	12012	8809	10466
40°	7583	11683	7583	10581
45°	7487	11264	7487	10602
50°	7144	10716	7144	10643
55°	7108	9883	7108	10536
60°	6371	8809	6371	10495
65°	5433	7759	5433	10201
70°	4386	6576	4386	9451
75°	3799	5434	3799	8690
80°	3236	4045	3236	7011
85°	2149	2149	2149	4298

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 11661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	0.9
10°-20°	188.2	2.5
20°-30°	285.9	3.7
30°-40°	335.6	4.4
40°-50°	340.5	4.5
50°-60°	298.3	3.9
60°-70°	211.6	2.8
70°-80°	109.0	1.4
80°-90°	23.9	0.3
90°-100°	356.5	4.7
100°-110°	1167.5	15.3
110°-120°	1154.2	15.1
120°-130°	943.5	12.4
130°-140°	770.0	10.1
140°-150°	599.2	7.8
150°-160°	431.5	5.7
160°-170°	264.0	3.5
170°-180°	89.2	1.2
0°-30°	541.5	7.1
0°-40°	877.1	11.5
0°-60°	1515.9	19.9
0°-90°	1860.4	24.4
90°-120°	2678.3	35.1
90°-150°	4991.1	65.4
90°-180°	5776.0	75.6
0°-180°	7636.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	749	749	749	749	749	
5°	737	772	737	615	737	70
15°	699	763	699	598	699	196
25°	606	705	606	592	606	277
35°	447	609	447	531	447	278
45°	328	493	328	464	328	251
55°	252	351	252	374	252	218
65°	142	203	142	267	142	142
75°	61	87	61	139	61	66
85°	12	12	12	23	12	15
90°	1	8	1	8	1	3
95°	50	150	50	150	50	57
105°	203	2092	203	2092	203	214
115°	366	2284	366	2284	366	361
125°	509	1802	509	1802	509	453
135°	613	1492	613	1492	613	474
145°	716	1247	716	1247	716	449
155°	816	1058	816	1058	816	376
165°	892	974	892	974	892	251
175°	932	938	932	938	932	88
180°	936	936	936	936	936	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7	748.7
2.5°	744.0	755.4	755.6	755.6	755.6	755.6	755.6	755.4	744.0	744.0	732.4
5°	737.1	756.9	763.2	766.2	771.9	766.2	763.2	756.9	737.1	728.6	681.9
7.5°	730.1	756.8	766.1	771.4	774.2	771.4	766.1	756.8	730.1	692.1	594.3
10°	725.5	756.7	766.1	769.1	771.9	769.1	766.1	756.7	725.5	648.9	568.8
12.5°	718.5	752.0	763.8	766.7	769.6	766.7	763.8	752.0	718.5	610.1	550.2
15°	699.3	744.7	754.5	760.4	763.2	760.4	754.5	744.7	699.3	577.3	536.8
17.5°	675.6	730.6	743.5	748.7	751.0	748.7	743.5	730.6	675.6	547.9	537.4
20°	661.6	721.2	734.2	737.1	737.1	737.1	734.2	721.2	661.6	533.9	551.4
22.5°	643.1	709.4	722.6	723.2	725.5	723.2	722.6	709.4	643.1	517.6	558.3
25°	606.5	683.1	702.3	699.5	705.2	699.5	702.3	683.1	606.5	495.8	557.2
27.5°	561.8	658.3	672.1	675.0	675.0	675.0	672.1	658.3	561.8	474.4	545.5
30°	533.9	641.8	655.8	658.7	658.7	658.7	655.8	641.8	533.9	460.2	533.9
32.5°	499.1	627.4	639.6	640.2	640.2	640.2	639.6	627.4	499.1	445.8	515.4
35°	446.9	602.9	612.3	612.2	609.4	612.2	612.3	602.9	446.9	424.2	493.3
37.5°	394.7	571.7	584.4	580.3	577.5	580.3	584.4	571.7	394.7	402.0	474.7
40°	359.8	552.8	565.9	557.1	554.3	557.1	565.9	552.8	359.8	385.4	458.5
42.5°	341.3	531.9	545.0	533.9	531.0	533.9	545.0	531.9	341.3	369.1	444.6
45°	327.9	498.2	510.7	499.0	493.3	499.0	510.7	498.2	327.9	344.9	420.8
47.5°	307.6	457.4	475.3	457.8	452.1	457.8	475.3	457.4	307.6	320.1	399.3
50°	284.4	431.9	449.8	432.2	426.6	432.2	449.8	431.9	284.4	301.4	383.0
52.5°	268.1	406.6	421.9	402.1	396.4	402.1	421.9	406.6	268.1	278.3	369.1
55°	252.5	368.8	380.1	359.6	351.1	359.6	380.1	368.8	252.5	243.9	342.4
57.5°	215.9	326.6	338.4	314.9	305.3	314.9	338.4	326.6	215.9	208.5	314.6
60°	197.3	296.6	310.5	287.0	272.8	287.0	310.5	296.6	197.3	183.1	296.0
62.5°	176.4	264.4	282.6	259.1	244.9	259.1	282.6	264.4	176.4	166.8	275.1
65°	142.2	218.8	240.9	217.3	203.1	217.3	240.9	218.8	142.2	147.9	240.9
67.5°	111.4	177.3	202.0	176.2	164.8	176.2	202.0	177.3	111.4	130.2	209.5
70°	92.9	149.6	174.1	150.6	139.3	150.6	174.1	149.6	92.9	118.4	188.6
72.5°	81.3	124.4	150.9	125.2	116.1	125.2	150.9	124.4	81.3	106.8	163.1
75°	60.9	86.5	116.1	92.7	87.1	92.7	116.1	86.5	60.9	86.5	127.7
77.5°	44.1	56.0	81.8	62.0	59.8	62.0	81.8	56.0	44.1	65.1	92.9
80°	34.8	37.7	60.9	43.5	43.5	43.5	60.9	37.7	34.8	49.0	69.6
82.5°	23.2	26.1	42.4	29.5	27.3	29.5	42.4	26.1	23.2	35.1	48.8
85°	11.6	11.6	17.4	11.6	11.6	11.6	17.4	11.6	11.6	17.3	23.2
87.5°	2.5	2.9	6.2	3.7	3.9	3.7	6.2	2.9	2.5	5.2	6.2
90°	1.0	2.8	7.7	6.8	7.7	6.8	7.7	2.8	1.0	2.8	7.7
92.5°	16.3	59.6	183.1	59.6	47.7	59.6	183.1	59.6	16.3	59.6	183.1
95°	50.0	145.0	648.2	230.9	150.0	230.9	648.2	145.0	50.0	145.0	648.2
97.5°	90.8	191.2	1112.1	672.8	417.0	672.8	1112.1	191.2	90.8	191.2	1112.1
100°	119.3	215.2	1286.8	1149.1	761.7	1149.1	1286.8	215.2	119.3	215.2	1286.8
102.5°	151.6	245.2	1267.6	1693.2	1312.6	1693.2	1267.6	245.2	151.6	245.2	1267.6
105°	202.9	289.4	1158.9	2201.8	2091.8	2201.8	1158.9	289.4	202.9	289.4	1158.9
107.5°	253.5	332.9	1052.9	2249.3	2370.3	2249.3	1052.9	332.9	253.5	332.9	1052.9
110°	286.6	363.7	1002.1	2194.0	2418.7	2194.0	1002.1	363.7	286.6	363.7	1002.1

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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°	318.1	393.0	971.3	2097.7	2385.7	2097.7	971.3	393.0	318.1	393.0	971.3
115°	365.5	436.9	941.5	1945.6	2284.1	1945.6	941.5	436.9	365.5	436.9	941.5
117.5°	411.4	478.2	930.2	1796.0	2139.8	1796.0	930.2	478.2	411.4	478.2	930.2
120°	441.4	504.4	927.1	1708.9	2043.7	1708.9	927.1	504.4	441.4	504.4	927.1
122.5°	468.4	529.9	927.1	1633.7	1944.4	1633.7	927.1	529.9	468.4	529.9	927.1
125°	508.8	567.1	928.1	1534.3	1802.3	1534.3	928.1	567.1	508.8	567.1	928.1
127.5°	543.0	602.4	926.9	1461.0	1694.2	1461.0	926.9	602.4	543.0	602.4	926.9
130°	564.5	624.7	926.1	1416.6	1627.2	1416.6	926.1	624.7	564.5	624.7	926.1
132.5°	583.8	645.5	923.8	1378.5	1569.5	1378.5	923.8	645.5	583.8	645.5	923.8
135°	612.6	677.5	920.4	1323.3	1491.6	1323.3	920.4	677.5	612.6	677.5	920.4
137.5°	643.0	707.3	918.3	1265.8	1418.0	1265.8	918.3	707.3	643.0	707.3	918.3
140°	664.6	726.6	917.5	1229.5	1373.3	1229.5	917.5	726.6	664.6	726.6	917.5
142.5°	686.1	744.4	917.5	1190.7	1321.0	1190.7	917.5	744.4	686.1	744.4	917.5
145°	716.5	769.1	918.4	1138.3	1247.4	1138.3	918.4	769.1	716.5	769.1	918.4
147.5°	748.4	792.2	919.8	1092.7	1175.0	1092.7	919.8	792.2	748.4	792.2	919.8
150°	768.4	807.0	921.3	1066.2	1135.8	1066.2	921.3	807.0	768.4	807.0	921.3
152.5°	788.4	822.5	922.1	1044.4	1101.9	1044.4	922.1	822.5	788.4	822.5	922.1
155°	816.5	843.8	924.2	1018.4	1057.9	1018.4	924.2	843.8	816.5	843.8	924.2
157.5°	841.7	861.5	926.3	998.0	1026.5	998.0	926.3	861.5	841.7	861.5	926.3
160°	857.9	873.8	927.1	986.3	1008.9	986.3	927.1	873.8	857.9	873.8	927.1
162.5°	871.7	884.7	927.1	976.9	993.5	976.9	927.1	884.7	871.7	884.7	927.1
165°	891.5	900.0	928.1	963.9	974.2	963.9	928.1	900.0	891.5	900.0	928.1
167.5°	908.3	912.4	929.2	953.8	959.4	953.8	929.2	912.4	908.3	912.4	929.2
170°	917.5	919.4	930.0	948.3	950.2	948.3	930.0	919.4	917.5	919.4	930.0
172.5°	924.4	925.5	932.3	944.4	944.8	944.4	932.3	925.5	924.4	925.5	932.3
175°	931.9	931.9	932.9	939.6	937.7	939.6	932.9	931.9	931.9	931.9	932.9
177.5°	935.8	935.0	934.2	938.8	935.8	938.8	934.2	935.0	935.8	935.0	934.2
180°	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8	935.8

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	748.7	748.7	748.7	748.7	748.7	748.7
2.5°	725.4	723.1	725.4	732.4	744.0	744.0
5°	629.4	615.2	629.4	681.9	728.6	737.1
7.5°	572.1	567.6	572.1	594.3	692.1	730.1
10°	551.4	551.4	551.4	568.8	648.9	725.5
12.5°	549.3	560.6	549.3	550.2	610.1	718.5
15°	583.6	597.8	583.6	536.8	577.3	699.3
17.5°	595.1	606.5	595.1	537.4	547.9	675.6
20°	595.1	606.5	595.1	551.4	533.9	661.6
22.5°	592.8	604.2	592.8	558.3	517.6	643.1
25°	586.3	592.0	586.3	557.2	495.8	606.5
27.5°	574.7	578.6	574.7	545.5	474.4	561.8
30°	563.2	571.7	563.2	533.9	460.2	533.9
32.5°	551.4	553.1	551.4	515.4	445.8	499.1
35°	533.9	531.0	533.9	493.3	424.2	446.9
37.5°	510.2	513.6	510.2	474.7	402.0	394.7
40°	496.3	502.0	496.3	458.5	385.4	359.8
42.5°	482.4	488.1	482.4	444.6	369.1	341.3
45°	461.5	464.3	461.5	420.8	344.9	327.9
47.5°	437.1	439.9	437.1	399.3	320.1	307.6
50°	420.8	423.7	420.8	383.0	301.4	284.4
52.5°	402.3	405.1	402.3	369.1	278.3	268.1
55°	374.3	374.3	374.3	342.4	243.9	252.5
57.5°	342.5	345.9	342.5	314.6	208.5	215.9
60°	319.3	325.0	319.3	296.0	183.1	197.3
62.5°	298.4	301.8	298.4	275.1	166.8	176.4
65°	264.1	267.0	264.1	240.9	147.9	142.2
67.5°	225.8	228.1	225.8	209.5	130.2	111.4
70°	200.2	200.2	200.2	188.6	118.4	92.9
72.5°	174.7	177.0	174.7	163.1	106.8	81.3
75°	136.5	139.3	136.5	127.7	86.5	60.9
77.5°	98.1	101.0	98.1	92.9	65.1	44.1
80°	72.6	75.4	72.6	69.6	49.0	34.8
82.5°	51.7	52.2	51.7	48.8	35.1	23.2
85°	23.2	23.2	23.2	23.2	17.3	11.6
87.5°	6.0	6.2	6.0	6.2	5.2	2.5
90°	6.8	7.7	6.8	7.7	2.8	1.0
92.5°	59.6	47.7	59.6	183.1	59.6	16.3
95°	230.9	150.0	230.9	648.2	145.0	50.0
97.5°	672.8	417.0	672.8	1112.1	191.2	90.8
100°	1149.1	761.7	1149.1	1286.8	215.2	119.3
102.5°	1693.2	1312.6	1693.2	1267.6	245.2	151.6
105°	2201.8	2091.8	2201.8	1158.9	289.4	202.9
107.5°	2249.3	2370.3	2249.3	1052.9	332.9	253.5
110°	2194.0	2418.7	2194.0	1002.1	363.7	286.6

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2097.7	2385.7	2097.7	971.3	393.0	318.1
115°	1945.6	2284.1	1945.6	941.5	436.9	365.5
117.5°	1796.0	2139.8	1796.0	930.2	478.2	411.4
120°	1708.9	2043.7	1708.9	927.1	504.4	441.4
122.5°	1633.7	1944.4	1633.7	927.1	529.9	468.4
125°	1534.3	1802.3	1534.3	928.1	567.1	508.8
127.5°	1461.0	1694.2	1461.0	926.9	602.4	543.0
130°	1416.6	1627.2	1416.6	926.1	624.7	564.5
132.5°	1378.5	1569.5	1378.5	923.8	645.5	583.8
135°	1323.3	1491.6	1323.3	920.4	677.5	612.6
137.5°	1265.8	1418.0	1265.8	918.3	707.3	643.0
140°	1229.5	1373.3	1229.5	917.5	726.6	664.6
142.5°	1190.7	1321.0	1190.7	917.5	744.4	686.1
145°	1138.3	1247.4	1138.3	918.4	769.1	716.5
147.5°	1092.7	1175.0	1092.7	919.8	792.2	748.4
150°	1066.2	1135.8	1066.2	921.3	807.0	768.4
152.5°	1044.4	1101.9	1044.4	922.1	822.5	788.4
155°	1018.4	1057.9	1018.4	924.2	843.8	816.5
157.5°	998.0	1026.5	998.0	926.3	861.5	841.7
160°	986.3	1008.9	986.3	927.1	873.8	857.9
162.5°	976.9	993.5	976.9	927.1	884.7	871.7
165°	963.9	974.2	963.9	928.1	900.0	891.5
167.5°	953.8	959.4	953.8	929.2	912.4	908.3
170°	948.3	950.2	948.3	930.0	919.4	917.5
172.5°	944.4	944.8	944.4	932.3	925.5	924.4
175°	939.6	937.7	939.6	932.9	931.9	931.9
177.5°	938.8	935.8	938.8	934.2	935.0	935.8
180°	935.8	935.8	935.8	935.8	935.8	935.8

TEST NUMBER: P1191374

CATALOG NUMBER: SQ2-FA-150U-050D-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	11.96	12.63	13.11	13.77	15.36	13.19	13.85	14.34	14.99	16.59
	3H	13.03	13.63	14.19	14.78	16.39	14.41	15.01	15.57	16.16	17.77
	4H	13.38	13.95	14.55	15.09	16.71	14.79	15.36	15.96	16.51	18.12
	6H	13.53	14.05	14.71	15.20	16.83	14.94	15.47	16.12	16.62	18.24
	8H	13.56	14.06	14.74	15.22	16.84	14.96	15.46	16.14	16.62	18.24
	12H	13.55	14.02	14.73	15.18	16.82	14.94	15.41	16.12	16.57	18.21
4H	2H	12.86	13.43	14.04	14.58	16.20	13.78	14.34	14.95	15.49	17.11
	3H	14.21	14.69	15.39	15.86	17.49	15.21	15.68	16.39	16.85	18.48
	4H	14.65	15.09	15.83	16.25	17.89	15.67	16.10	16.85	17.26	18.91
	6H	14.87	15.24	16.05	16.42	18.06	15.88	16.25	17.06	17.43	19.07
	8H	14.92	15.27	16.10	16.44	18.10	15.92	16.27	17.10	17.44	19.10
	12H	14.91	15.23	16.11	16.41	18.07	15.90	16.22	17.10	17.40	19.06
8H	4H	15.04	15.38	16.22	16.56	18.21	15.86	16.21	17.05	17.38	19.04
	6H	15.37	15.66	16.58	16.88	18.52	16.16	16.45	17.37	17.67	19.32
	8H	15.48	15.73	16.69	16.93	18.60	16.25	16.50	17.46	17.70	19.37
	12H	15.51	15.73	16.72	16.92	18.62	16.26	16.48	17.47	17.67	19.37
12H	4H	15.03	15.34	16.23	16.53	18.19	15.82	16.14	17.02	17.32	18.98
	6H	15.44	15.69	16.65	16.89	18.56	16.18	16.43	17.39	17.63	19.30
	8H	15.58	15.80	16.79	16.99	18.69	16.28	16.50	17.50	17.70	19.40