

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: P1191254

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

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191254
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-050D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

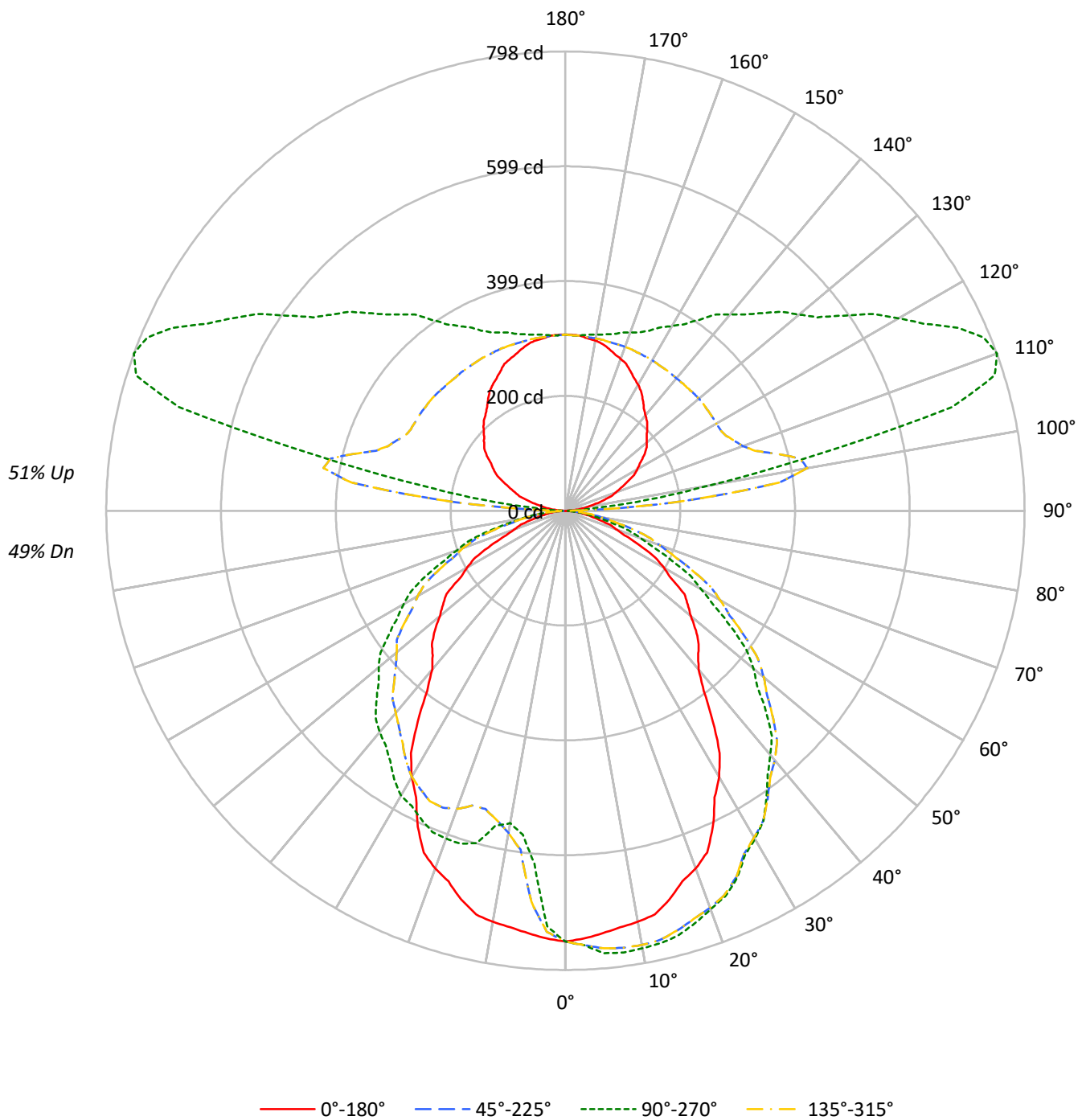
Lumens per Lamp: N/A
Luminaire Lumens: 3758.9 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.6
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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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	44	42	40
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	39	36	34
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22
7	58	46	38	32	53	43	36	30	37	31	27	31	27	23	26	22	20
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	20	17	15

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	1.8
10°-20°	188.2	5.0
20°-30°	285.9	7.6
30°-40°	335.6	8.9
40°-50°	340.5	9.1
50°-60°	298.3	7.9
60°-70°	211.6	5.6
70°-80°	109.0	2.9
80°-90°	23.2	0.6
90°-100°	121.8	3.2
100°-110°	386.3	10.3
110°-120°	378.8	10.1
120°-130°	308.3	8.2
130°-140°	251.4	6.7
140°-150°	196.0	5.2
150°-160°	141.2	3.8
160°-170°	86.3	2.3
170°-180°	29.1	0.8
0°-30°	541.5	14.4
0°-40°	877.1	23.3
0°-60°	1515.9	40.3
0°-90°	1859.8	49.5
90°-120°	887.0	23.6
90°-150°	1642.6	43.7
90°-180°	1899.0	50.5
0°-180°	3758.9	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°	0	3	0	3	0	1
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°	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°	2.3	2.5	5.2	2.9	2.9	2.9	5.2	2.5	2.3	4.8	5.2
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°	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°	5.2	5.2	5.2	5.2	4.8	2.3
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: P1191254

CATALOG NUMBER: SQ2-FA-050U-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	14.96	15.82	15.92	16.79	18.07	16.19	17.04	17.15	18.02	19.30
	3H	16.05	16.82	17.02	17.80	19.10	17.43	18.19	18.40	19.18	20.48
	4H	16.40	17.13	17.39	18.12	19.43	17.82	18.54	18.81	19.53	20.84
	6H	16.57	17.23	17.56	18.23	19.55	17.98	18.65	18.98	19.64	20.96
	8H	16.60	17.24	17.60	18.25	19.57	18.00	18.64	19.01	19.65	20.97
	12H	16.60	17.20	17.61	18.21	19.55	17.99	18.59	19.00	19.60	20.94
4H	2H	15.89	16.61	16.88	17.60	18.91	16.80	17.52	17.79	18.51	19.82
	3H	17.26	17.86	18.26	18.88	20.20	18.25	18.85	19.25	19.87	21.20
	4H	17.70	18.25	18.71	19.27	20.61	18.72	19.27	19.73	20.28	21.63
	6H	17.93	18.40	18.95	19.44	20.78	18.94	19.41	19.96	20.45	21.79
	8H	17.99	18.43	19.01	19.46	20.82	18.99	19.43	20.01	20.46	21.82
	12H	17.99	18.39	19.03	19.43	20.79	18.98	19.37	20.02	20.42	21.78
8H	4H	18.10	18.54	19.12	19.57	20.93	18.93	19.37	19.95	20.40	21.76
	6H	18.45	18.81	19.49	19.88	21.24	19.24	19.60	20.28	20.67	22.03
	8H	18.56	18.88	19.62	19.94	21.31	19.33	19.65	20.39	20.71	22.08
	12H	18.60	18.88	19.66	19.93	21.35	19.34	19.63	20.40	20.68	22.09
12H	4H	18.10	18.50	19.15	19.55	20.91	18.90	19.29	19.94	20.34	21.70
	6H	18.52	18.84	19.57	19.90	21.27	19.26	19.58	20.31	20.63	22.01
	8H	18.66	18.94	19.72	19.99	21.41	19.37	19.65	20.43	20.70	22.12