

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: P1191260

Luminaire Tested: SQ2-FA-050U-075D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191260
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-075D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

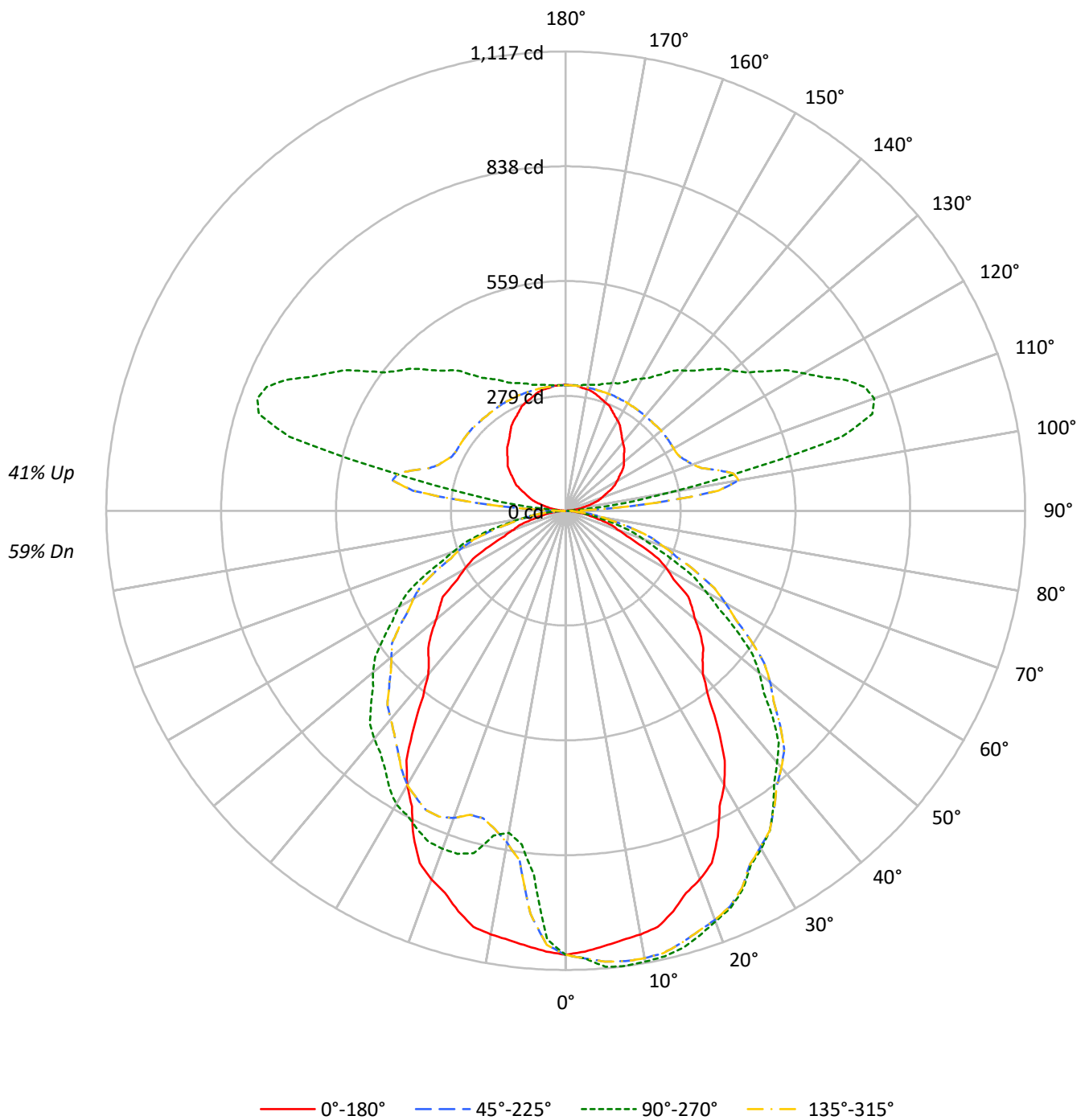
Lumens per Lamp: N/A
Luminaire Lumens: 4581.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 41.5
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	54
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	44	42	39
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	36	34
5	70	58	50	44	65	54	47	42	48	42	37	42	37	33	36	32	29
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	32	29	26
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23
8	55	43	35	29	51	40	33	28	36	30	26	31	27	23	27	23	21
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19
10	48	36	28	24	45	34	27	23	30	25	21	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17438	17438	17438	17438
5°	17233	18047	17233	14384
10°	17157	18256	17157	13041
15°	16864	18404	16864	14414
20°	16399	18270	16399	15033
25°	15586	18121	15586	15214
30°	14359	17717	14359	15375
35°	12707	17327	12707	15100
40°	10941	16853	10941	15264
45°	10800	16248	10800	15294
50°	10304	15458	10304	15352
55°	10252	14258	10252	15201
60°	9193	12707	9193	15138
65°	7836	11194	7836	14712
70°	6326	9484	6326	13633
75°	5483	7835	5483	12533
80°	4668	5839	4668	10116
85°	3094	3094	3094	6206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 16824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	2.1
10°-20°	271.5	5.9
20°-30°	412.4	9.0
30°-40°	484.1	10.6
40°-50°	491.2	10.7
50°-60°	430.4	9.4
60°-70°	305.3	6.7
70°-80°	157.2	3.4
80°-90°	33.4	0.7
90°-100°	121.8	2.7
100°-110°	386.3	8.4
110°-120°	378.8	8.3
120°-130°	308.3	6.7
130°-140°	251.4	5.5
140°-150°	196.0	4.3
150°-160°	141.2	3.1
160°-170°	86.3	1.9
170°-180°	29.1	0.6
0°-30°	781.1	17.0
0°-40°	1265.2	27.6
0°-60°	2186.8	47.7
0°-90°	2682.6	58.6
90°-120°	887.0	19.4
90°-150°	1642.6	35.9
90°-180°	1899.0	41.4
0°-180°	4581.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1080	1080	1080	1080	1080	
5°	1063	1114	1063	888	1063	101
15°	1009	1101	1009	862	1009	283
25°	875	1017	875	854	875	399
35°	645	879	645	766	645	402
45°	473	712	473	670	473	362
55°	364	506	364	540	364	315
65°	205	293	205	385	205	205
75°	88	126	88	201	88	95
85°	17	17	17	34	17	21
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°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1073.3	1089.7	1090.1	1090.1	1090.1	1090.1	1090.1	1089.7	1073.3	1073.3	1056.6
5°	1063.3	1091.9	1101.0	1105.3	1113.5	1105.3	1101.0	1091.9	1063.3	1051.0	983.7
7.5°	1053.2	1091.7	1105.1	1112.8	1116.9	1112.8	1105.1	1091.7	1053.2	998.4	857.3
10°	1046.5	1091.6	1105.1	1109.4	1113.5	1109.4	1105.1	1091.6	1046.5	936.0	820.5
12.5°	1036.5	1084.8	1101.8	1106.1	1110.2	1106.1	1101.8	1084.8	1036.5	880.1	793.7
15°	1008.9	1074.3	1088.4	1096.9	1101.0	1096.9	1088.4	1074.3	1008.9	832.9	774.4
17.5°	974.5	1053.9	1072.5	1080.1	1083.4	1080.1	1072.5	1053.9	974.5	790.3	775.3
20°	954.4	1040.4	1059.1	1063.3	1063.3	1063.3	1059.1	1040.4	954.4	770.2	795.4
22.5°	927.6	1023.4	1042.3	1043.3	1046.5	1043.3	1042.3	1023.4	927.6	746.7	805.4
25°	874.9	985.4	1013.0	1009.0	1017.2	1009.0	1013.0	985.4	874.9	715.3	803.7
27.5°	810.4	949.6	969.5	973.7	973.7	973.7	969.5	949.6	810.4	684.4	787.0
30°	770.2	925.8	946.1	950.3	950.3	950.3	946.1	925.8	770.2	663.8	770.2
32.5°	720.0	905.0	922.6	923.5	923.5	923.5	922.6	905.0	720.0	643.1	743.5
35°	644.7	869.8	883.3	883.2	879.1	883.2	883.3	869.8	644.7	611.9	711.6
37.5°	569.3	824.7	843.1	837.1	833.0	837.1	843.1	824.7	569.3	580.0	684.9
40°	519.1	797.4	816.3	803.6	799.6	803.6	816.3	797.4	519.1	555.9	661.4
42.5°	492.3	767.3	786.2	770.2	766.1	770.2	786.2	767.3	492.3	532.4	641.3
45°	473.0	718.6	736.8	719.8	711.6	719.8	736.8	718.6	473.0	497.6	607.0
47.5°	443.7	659.8	685.7	660.4	652.2	660.4	685.7	659.8	443.7	461.7	576.0
50°	410.2	623.1	648.9	623.5	615.4	623.5	648.9	623.1	410.2	434.8	552.6
52.5°	386.8	586.5	608.7	580.0	571.8	580.0	608.7	586.5	386.8	401.5	532.5
55°	364.2	532.0	548.4	518.8	506.5	518.8	548.4	532.0	364.2	351.9	494.0
57.5°	311.4	471.1	488.1	454.3	440.4	454.3	488.1	471.1	311.4	300.8	453.8
60°	284.7	427.9	447.9	414.0	393.5	414.0	447.9	427.9	284.7	264.2	427.0
62.5°	254.5	381.4	407.7	373.8	353.3	373.8	407.7	381.4	254.5	240.6	396.8
65°	205.1	315.6	347.4	313.5	293.0	313.5	347.4	315.6	205.1	213.3	347.4
67.5°	160.7	255.7	291.4	254.1	237.8	254.1	291.4	255.7	160.7	187.8	302.2
70°	134.0	215.8	251.2	217.3	200.9	217.3	251.2	215.8	134.0	170.8	272.1
72.5°	117.2	179.4	217.7	180.5	167.4	180.5	217.7	179.4	117.2	154.0	235.3
75°	87.9	124.7	167.4	133.8	125.6	133.8	167.4	124.7	87.9	124.7	184.2
77.5°	63.6	80.8	118.0	89.5	86.2	89.5	118.0	80.8	63.6	93.9	134.0
80°	50.2	54.3	87.9	62.8	62.8	62.8	87.9	54.3	50.2	70.7	100.5
82.5°	33.5	37.6	61.1	42.6	39.3	42.6	61.1	37.6	33.5	50.7	70.3
85°	16.7	16.7	25.1	16.7	16.7	16.7	25.1	16.7	16.7	24.9	33.5
87.5°	3.3	3.5	7.3	3.9	3.9	3.9	7.3	3.5	3.3	6.8	7.3
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°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1046.5	1043.2	1046.5	1056.6	1073.3	1073.3
5°	907.9	887.5	907.9	983.7	1051.0	1063.3
7.5°	825.4	818.8	825.4	857.3	998.4	1053.2
10°	795.4	795.4	795.4	820.5	936.0	1046.5
12.5°	792.4	808.8	792.4	793.7	880.1	1036.5
15°	841.9	862.3	841.9	774.4	832.9	1008.9
17.5°	858.5	874.9	858.5	775.3	790.3	974.5
20°	858.5	874.9	858.5	795.4	770.2	954.4
22.5°	855.2	871.6	855.2	805.4	746.7	927.6
25°	845.8	854.0	845.8	803.7	715.3	874.9
27.5°	829.0	834.7	829.0	787.0	684.4	810.4
30°	812.4	824.7	812.4	770.2	663.8	770.2
32.5°	795.4	797.9	795.4	743.5	643.1	720.0
35°	770.2	766.1	770.2	711.6	611.9	644.7
37.5°	736.0	740.9	736.0	684.9	580.0	569.3
40°	716.0	724.2	716.0	661.4	555.9	519.1
42.5°	695.9	704.1	695.9	641.3	532.4	492.3
45°	665.7	669.8	665.7	607.0	497.6	473.0
47.5°	630.5	634.6	630.5	576.0	461.7	443.7
50°	607.1	611.2	607.1	552.6	434.8	410.2
52.5°	580.3	584.4	580.3	532.5	401.5	386.8
55°	540.0	540.0	540.0	494.0	351.9	364.2
57.5°	494.1	499.0	494.1	453.8	300.8	311.4
60°	460.7	468.8	460.7	427.0	264.2	284.7
62.5°	430.4	435.4	430.4	396.8	240.6	254.5
65°	381.0	385.1	381.0	347.4	213.3	205.1
67.5°	325.8	329.0	325.8	302.2	187.8	160.7
70°	288.8	288.8	288.8	272.1	170.8	134.0
72.5°	252.1	255.4	252.1	235.3	154.0	117.2
75°	196.8	200.9	196.8	184.2	124.7	87.9
77.5°	141.6	145.7	141.6	134.0	93.9	63.6
80°	104.7	108.8	104.7	100.5	70.7	50.2
82.5°	74.5	75.4	74.5	70.3	50.7	33.5
85°	33.5	33.5	33.5	33.5	24.9	16.7
87.5°	7.3	7.3	7.3	7.3	6.8	3.3
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: P1191260

CATALOG NUMBER: SQ2-FA-050U-075D-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	17.04	17.98	17.92	18.88	20.02	18.26	19.20	19.14	20.11	21.25
	3H	18.13	18.98	19.03	19.89	21.06	19.51	20.36	20.40	21.27	22.44
	4H	18.49	19.29	19.40	20.20	21.38	19.91	20.70	20.81	21.62	22.80
	6H	18.66	19.39	19.58	20.31	21.51	20.07	20.80	20.99	21.73	22.92
	8H	18.69	19.39	19.62	20.33	21.52	20.10	20.80	21.02	21.74	22.93
	12H	18.69	19.36	19.63	20.29	21.51	20.08	20.75	21.02	21.68	22.90
4H	2H	17.98	18.77	18.89	19.69	20.87	18.89	19.68	19.80	20.60	21.78
	3H	19.35	20.02	20.28	20.96	22.16	20.35	21.01	21.27	21.96	23.15
	4H	19.80	20.40	20.73	21.35	22.57	20.82	21.42	21.75	22.36	23.58
	6H	20.03	20.55	20.98	21.52	22.74	21.04	21.56	21.99	22.53	23.75
	8H	20.09	20.58	21.04	21.54	22.77	21.09	21.58	22.04	22.54	23.77
	12H	20.10	20.53	21.07	21.51	22.75	21.08	21.52	22.05	22.50	23.74
8H	4H	20.21	20.69	21.16	21.65	22.89	21.03	21.52	21.98	22.48	23.71
	6H	20.55	20.96	21.53	21.96	23.19	21.35	21.75	22.32	22.75	23.98
	8H	20.67	21.02	21.66	22.02	23.27	21.44	21.80	22.43	22.79	24.04
	12H	20.71	21.02	21.70	22.01	23.30	21.46	21.77	22.45	22.75	24.05
12H	4H	20.21	20.65	21.18	21.63	22.87	21.00	21.44	21.97	22.42	23.66
	6H	20.63	20.98	21.61	21.97	23.22	21.37	21.72	22.35	22.71	23.96
	8H	20.77	21.09	21.76	22.07	23.37	21.48	21.80	22.47	22.78	24.08