

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: P1191327

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

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191327
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-100U-050D-L935-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

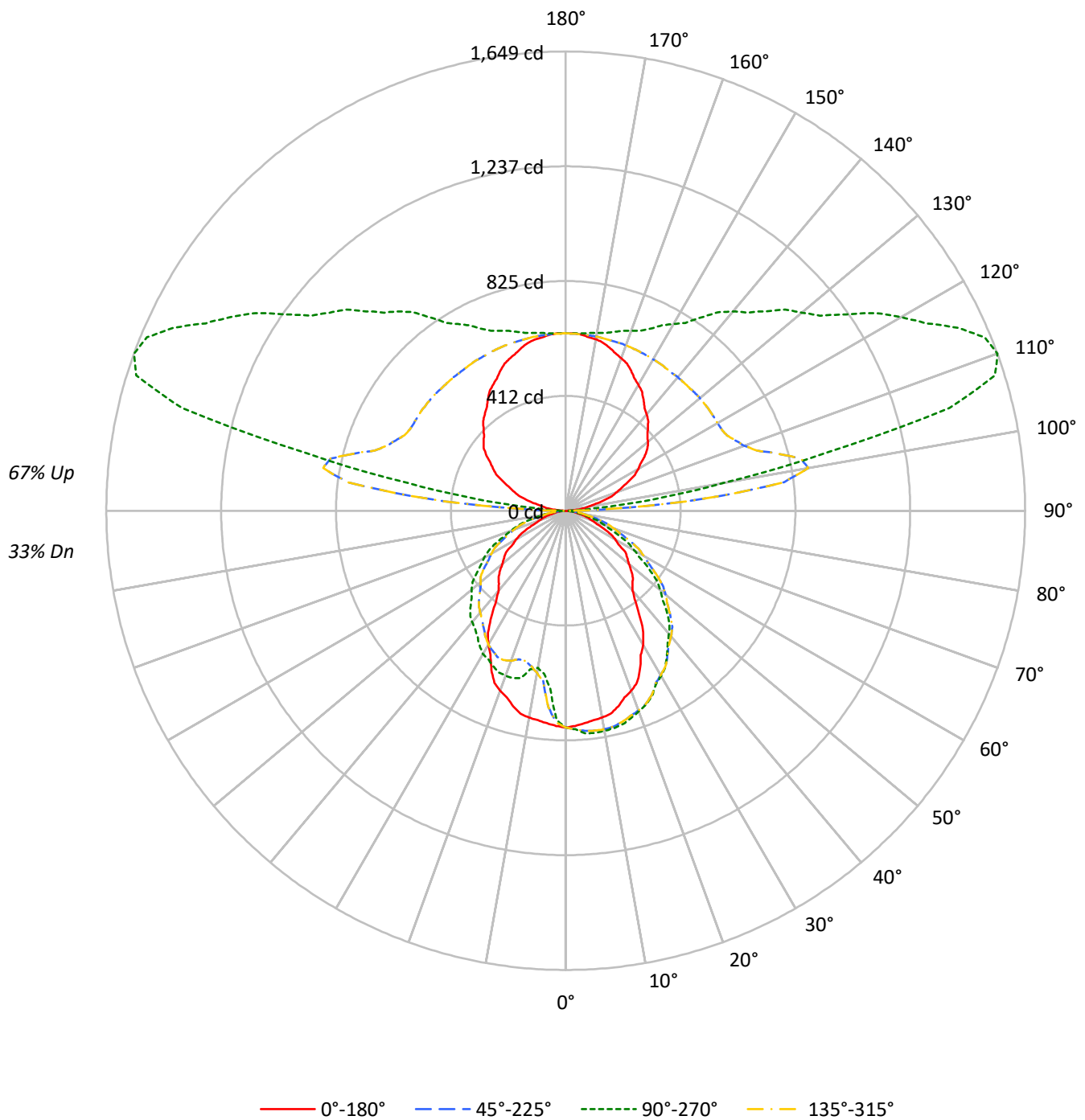
Lumens per Lamp: N/A
Luminaire Lumens: 5897.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.4
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	78	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21
5	65	54	46	40	59	49	42	37	40	35	31	31	27	24	22	20	18
6	60	48	41	35	54	44	37	32	36	30	27	28	24	21	20	18	16
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11
10	45	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12568	12568	12568	12568
5°	12420	13008	12420	10366
10°	12367	13159	12367	9399
15°	12154	13264	12154	10389
20°	11820	13167	11820	10835
25°	11234	13062	11234	10965
30°	10351	12769	10351	11082
35°	9157	12489	9157	10882
40°	7885	12147	7885	11002
45°	7784	11711	7784	11022
50°	7428	11140	7428	11065
55°	7389	10277	7389	10956
60°	6626	9158	6626	10911
65°	5647	8069	5647	10606
70°	4556	6836	4556	9829
75°	3955	5646	3955	9033
80°	3366	4212	3366	7290
85°	2242	2242	2242	4465

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 12125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.2
10°-20°	195.7	3.3
20°-30°	297.2	5.0
30°-40°	348.9	5.9
40°-50°	354.1	6.0
50°-60°	310.2	5.3
60°-70°	220.0	3.7
70°-80°	113.3	1.9
80°-90°	24.9	0.4
90°-100°	266.0	4.5
100°-110°	804.4	13.6
110°-120°	785.2	13.3
120°-130°	641.7	10.9
130°-140°	523.8	8.9
140°-150°	407.7	6.9
150°-160°	293.9	5.0
160°-170°	179.9	3.1
170°-180°	60.8	1.0
0°-30°	563.0	9.5
0°-40°	911.9	15.5
0°-60°	1576.1	26.7
0°-90°	1934.4	32.8
90°-120°	1855.6	31.5
90°-150°	3428.7	58.1
90°-180°	3963.0	67.2
0°-180°	5897.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	778	778	778	778	778	
5°	766	803	766	640	766	73
15°	727	794	727	622	727	204
25°	631	733	631	616	631	288
35°	465	634	465	552	465	289
45°	341	513	341	483	341	261
55°	262	365	262	389	262	227
65°	148	211	148	278	148	148
75°	63	90	63	145	63	69
85°	12	12	12	24	12	15
90°	0	6	0	6	0	2
95°	33	117	33	117	33	39
105°	140	1426	140	1426	140	147
115°	249	1553	249	1553	249	246
125°	348	1229	348	1229	348	309
135°	417	1013	417	1013	417	323
145°	487	847	487	847	487	305
155°	555	721	555	721	555	255
165°	607	665	607	665	607	171
175°	635	639	635	639	635	60
180°	637	637	637	637	637	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4	778.4
2.5°	773.6	785.4	785.7	785.7	785.7	785.7	785.7	785.4	773.6	773.6	761.5
5°	766.3	787.0	793.5	796.7	802.6	796.7	793.5	787.0	766.3	757.5	709.0
7.5°	759.1	786.8	796.5	802.0	805.0	802.0	796.5	786.8	759.1	719.6	617.9
10°	754.3	786.7	796.5	799.6	802.6	799.6	796.5	786.7	754.3	674.6	591.4
12.5°	747.0	781.9	794.1	797.2	800.1	797.2	794.1	781.9	747.0	634.3	572.0
15°	727.1	774.3	784.5	790.6	793.5	790.6	784.5	774.3	727.1	600.3	558.2
17.5°	702.4	759.6	773.0	778.5	780.8	778.5	773.0	759.6	702.4	569.6	558.8
20°	687.9	749.9	763.3	766.3	766.3	766.3	763.3	749.9	687.9	555.2	573.3
22.5°	668.6	737.6	751.3	751.9	754.3	751.9	751.3	737.6	668.6	538.2	580.5
25°	630.6	710.2	730.1	727.3	733.2	727.3	730.1	710.2	630.6	515.5	579.3
27.5°	584.1	684.4	698.8	701.8	701.8	701.8	698.8	684.4	584.1	493.3	567.2
30°	555.2	667.3	681.9	684.9	684.9	684.9	681.9	667.3	555.2	478.4	555.2
32.5°	518.9	652.3	665.0	665.6	665.6	665.6	665.0	652.3	518.9	463.5	535.8
35°	464.6	626.9	636.6	636.5	633.6	636.5	636.6	626.9	464.6	441.0	512.9
37.5°	410.3	594.4	607.6	603.4	600.4	603.4	607.6	594.4	410.3	418.0	493.6
40°	374.1	574.7	588.3	579.2	576.3	579.2	588.3	574.7	374.1	400.7	476.7
42.5°	354.8	553.1	566.6	555.1	552.1	555.1	566.6	553.1	354.8	383.7	462.2
45°	340.9	517.9	531.0	518.8	512.9	518.8	531.0	517.9	340.9	358.6	437.5
47.5°	319.8	475.6	494.2	476.0	470.1	476.0	494.2	475.6	319.8	332.8	415.2
50°	295.7	449.1	467.7	449.4	443.5	449.4	467.7	449.1	295.7	313.4	398.3
52.5°	278.8	422.7	438.7	418.0	412.1	418.0	438.7	422.7	278.8	289.4	383.8
55°	262.5	383.4	395.2	373.9	365.1	373.9	395.2	383.4	262.5	253.6	356.0
57.5°	224.5	339.5	351.8	327.4	317.4	327.4	351.8	339.5	224.5	216.8	327.1
60°	205.2	308.4	322.8	298.4	283.6	298.4	322.8	308.4	205.2	190.4	307.7
62.5°	183.4	274.9	293.9	269.4	254.6	269.4	293.9	274.9	183.4	173.4	286.0
65°	147.8	227.5	250.4	225.9	211.2	225.9	250.4	227.5	147.8	153.7	250.4
67.5°	115.9	184.3	210.0	183.2	171.4	183.2	210.0	184.3	115.9	135.3	217.8
70°	96.5	155.5	181.0	156.6	144.8	156.6	181.0	155.5	96.5	123.1	196.1
72.5°	84.5	129.3	156.9	130.1	120.7	130.1	156.9	129.3	84.5	111.0	169.6
75°	63.4	89.9	120.7	96.4	90.5	96.4	120.7	89.9	63.4	89.9	132.8
77.5°	45.9	58.3	85.1	64.5	62.2	64.5	85.1	58.3	45.9	67.7	96.5
80°	36.2	39.2	63.4	45.3	45.3	45.3	63.4	39.2	36.2	51.0	72.4
82.5°	24.1	27.1	44.0	30.7	28.4	30.7	44.0	27.1	24.1	36.5	50.7
85°	12.1	12.1	18.1	12.1	12.1	12.1	18.1	12.1	12.1	18.0	24.1
87.5°	2.4	2.8	7.2	3.8	3.6	3.8	7.2	2.8	2.4	5.2	7.2
90°	0.0	2.0	12.0	7.0	6.0	7.0	12.0	2.0	0.0	2.0	12.0
92.5°	11.2	45.2	162.4	53.8	38.8	53.8	162.4	45.2	11.2	45.2	162.4
95°	33.0	104.3	501.9	185.4	117.0	185.4	501.9	104.3	33.0	104.3	501.9
97.5°	63.8	132.8	791.0	523.4	318.7	523.4	791.0	132.8	63.8	132.8	791.0
100°	83.0	150.4	883.8	854.4	573.8	854.4	883.8	150.4	83.0	150.4	883.8
102.5°	104.6	169.7	864.6	1198.4	955.3	1198.4	864.6	169.7	104.6	169.7	864.6
105°	140.0	196.7	789.8	1499.9	1425.6	1499.9	789.8	196.7	140.0	196.7	789.8
107.5°	173.6	227.7	717.8	1529.7	1615.8	1529.7	717.8	227.7	173.6	227.7	717.8
110°	195.9	247.8	681.8	1492.2	1648.6	1492.2	681.8	247.8	195.9	247.8	681.8

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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°	217.5	267.8	660.2	1429.1	1627.0	1429.1	660.2	267.8	217.5	267.8	660.2
115°	248.9	296.8	638.8	1321.9	1552.6	1321.9	638.8	296.8	248.9	296.8	638.8
117.5°	280.1	325.5	631.2	1221.4	1457.6	1221.4	631.2	325.5	280.1	325.5	631.2
120°	300.9	343.9	628.8	1162.8	1389.6	1162.8	628.8	343.9	300.9	343.9	628.8
122.5°	320.1	360.8	628.8	1111.3	1320.8	1111.3	628.8	360.8	320.1	360.8	628.8
125°	347.9	386.0	629.8	1043.9	1228.7	1043.9	629.8	386.0	347.9	386.0	629.8
127.5°	370.5	410.0	628.8	993.1	1150.7	993.1	628.8	410.0	370.5	410.0	628.8
130°	384.9	426.0	628.8	964.0	1106.7	964.0	628.8	426.0	384.9	426.0	628.8
132.5°	397.7	439.5	628.0	937.3	1069.1	937.3	628.0	439.5	397.7	439.5	628.0
135°	416.9	460.9	625.8	900.3	1012.7	900.3	625.8	460.9	416.9	460.9	625.8
137.5°	438.3	480.1	625.8	860.7	964.9	860.7	625.8	480.1	438.3	480.1	625.8
140°	451.9	492.9	625.8	835.0	933.8	835.0	625.8	492.9	451.9	492.9	625.8
142.5°	465.5	505.0	625.0	811.5	897.8	811.5	625.0	505.0	465.5	505.0	625.0
145°	486.9	523.0	625.8	774.4	846.8	774.4	625.8	523.0	486.9	523.0	625.8
147.5°	508.3	539.0	627.0	743.9	799.4	743.9	627.0	539.0	508.3	539.0	627.0
150°	521.9	550.2	627.8	726.9	773.8	726.9	627.8	550.2	521.9	550.2	627.8
152.5°	534.7	559.9	628.6	712.3	750.6	712.3	628.6	559.9	534.7	559.9	628.6
155°	554.9	573.4	629.8	694.4	720.8	694.4	629.8	573.4	554.9	573.4	629.8
157.5°	572.4	587.5	631.0	681.2	699.6	681.2	631.0	587.5	572.4	587.5	631.0
160°	582.8	595.6	631.8	673.1	686.8	673.1	631.8	595.6	582.8	595.6	631.8
162.5°	593.2	602.8	632.6	665.9	677.2	665.9	632.6	602.8	593.2	602.8	632.6
165°	606.8	613.7	632.8	657.0	664.8	657.0	632.8	613.7	606.8	613.7	632.8
167.5°	618.4	622.0	634.0	650.1	653.4	650.1	634.0	622.0	618.4	622.0	634.0
170°	624.8	626.8	634.8	646.8	647.8	646.8	634.8	626.8	624.8	626.8	634.8
172.5°	628.8	630.0	634.8	643.6	643.8	643.6	634.8	630.0	628.8	630.0	634.8
175°	634.8	634.8	635.8	640.8	638.8	640.8	635.8	634.8	634.8	634.8	635.8
177.5°	637.6	636.8	636.0	638.4	636.8	638.4	636.0	636.8	637.6	636.8	636.0
180°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	778.4	778.4	778.4	778.4	778.4	778.4
2.5°	754.2	751.9	754.2	761.5	773.6	773.6
5°	654.4	639.6	654.4	709.0	757.5	766.3
7.5°	594.9	590.1	594.9	617.9	719.6	759.1
10°	573.3	573.3	573.3	591.4	674.6	754.3
12.5°	571.1	582.9	571.1	572.0	634.3	747.0
15°	606.8	621.5	606.8	558.2	600.3	727.1
17.5°	618.8	630.6	618.8	558.8	569.6	702.4
20°	618.8	630.6	618.8	573.3	555.2	687.9
22.5°	616.4	628.2	616.4	580.5	538.2	668.6
25°	609.6	615.5	609.6	579.3	515.5	630.6
27.5°	597.5	601.6	597.5	567.2	493.3	584.1
30°	585.5	594.4	585.5	555.2	478.4	555.2
32.5°	573.3	575.1	573.3	535.8	463.5	518.9
35°	555.1	552.1	555.1	512.9	441.0	464.6
37.5°	530.5	534.0	530.5	493.6	418.0	410.3
40°	516.1	522.0	516.1	476.7	400.7	374.1
42.5°	501.6	507.5	501.6	462.2	383.7	354.8
45°	479.8	482.7	479.8	437.5	358.6	340.9
47.5°	454.4	457.4	454.4	415.2	332.8	319.8
50°	437.5	440.5	437.5	398.3	313.4	295.7
52.5°	418.2	421.2	418.2	383.8	289.4	278.8
55°	389.2	389.2	389.2	356.0	253.6	262.5
57.5°	356.1	359.6	356.1	327.1	216.8	224.5
60°	332.0	337.9	332.0	307.7	190.4	205.2
62.5°	310.2	313.8	310.2	286.0	173.4	183.4
65°	274.6	277.6	274.6	250.4	153.7	147.8
67.5°	234.8	237.1	234.8	217.8	135.3	115.9
70°	208.2	208.2	208.2	196.1	123.1	96.5
72.5°	181.7	184.0	181.7	169.6	111.0	84.5
75°	141.9	144.8	141.9	132.8	89.9	63.4
77.5°	102.0	105.0	102.0	96.5	67.7	45.9
80°	75.5	78.4	75.5	72.4	51.0	36.2
82.5°	53.7	54.3	53.7	50.7	36.5	24.1
85°	24.1	24.1	24.1	24.1	18.0	12.1
87.5°	6.2	6.0	6.2	7.2	5.2	2.4
90°	7.0	6.0	7.0	12.0	2.0	0.0
92.5°	53.8	38.8	53.8	162.4	45.2	11.2
95°	185.4	117.0	185.4	501.9	104.3	33.0
97.5°	523.4	318.7	523.4	791.0	132.8	63.8
100°	854.4	573.8	854.4	883.8	150.4	83.0
102.5°	1198.4	955.3	1198.4	864.6	169.7	104.6
105°	1499.9	1425.6	1499.9	789.8	196.7	140.0
107.5°	1529.7	1615.8	1529.7	717.8	227.7	173.6
110°	1492.2	1648.6	1492.2	681.8	247.8	195.9

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1429.1	1627.0	1429.1	660.2	267.8	217.5
115°	1321.9	1552.6	1321.9	638.8	296.8	248.9
117.5°	1221.4	1457.6	1221.4	631.2	325.5	280.1
120°	1162.8	1389.6	1162.8	628.8	343.9	300.9
122.5°	1111.3	1320.8	1111.3	628.8	360.8	320.1
125°	1043.9	1228.7	1043.9	629.8	386.0	347.9
127.5°	993.1	1150.7	993.1	628.8	410.0	370.5
130°	964.0	1106.7	964.0	628.8	426.0	384.9
132.5°	937.3	1069.1	937.3	628.0	439.5	397.7
135°	900.3	1012.7	900.3	625.8	460.9	416.9
137.5°	860.7	964.9	860.7	625.8	480.1	438.3
140°	835.0	933.8	835.0	625.8	492.9	451.9
142.5°	811.5	897.8	811.5	625.0	505.0	465.5
145°	774.4	846.8	774.4	625.8	523.0	486.9
147.5°	743.9	799.4	743.9	627.0	539.0	508.3
150°	726.9	773.8	726.9	627.8	550.2	521.9
152.5°	712.3	750.6	712.3	628.6	559.9	534.7
155°	694.4	720.8	694.4	629.8	573.4	554.9
157.5°	681.2	699.6	681.2	631.0	587.5	572.4
160°	673.1	686.8	673.1	631.8	595.6	582.8
162.5°	665.9	677.2	665.9	632.6	602.8	593.2
165°	657.0	664.8	657.0	632.8	613.7	606.8
167.5°	650.1	653.4	650.1	634.0	622.0	618.4
170°	646.8	647.8	646.8	634.8	626.8	624.8
172.5°	643.6	643.8	643.6	634.8	630.0	628.8
175°	640.8	638.8	640.8	635.8	634.8	634.8
177.5°	638.4	636.8	638.4	636.0	636.8	637.6
180°	636.8	636.8	636.8	636.8	636.8	636.8

TEST NUMBER: P1191327

CATALOG NUMBER: SQ2-FA-100U-050D-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	13.30	14.02	14.39	15.11	16.61	14.52	15.25	15.62	16.34	17.84
	3H	14.38	15.03	15.48	16.13	17.64	15.76	16.41	16.86	17.50	19.02
	4H	14.73	15.34	15.84	16.44	17.96	16.14	16.76	17.25	17.86	19.38
	6H	14.88	15.45	16.00	16.55	18.08	16.29	16.86	17.41	17.96	19.50
	8H	14.91	15.45	16.04	16.57	18.09	16.32	16.85	17.44	17.97	19.50
	12H	14.90	15.41	16.03	16.53	18.08	16.30	16.81	17.42	17.92	19.47
4H	2H	14.21	14.83	15.33	15.93	17.45	15.12	15.74	16.24	16.84	18.36
	3H	15.57	16.08	16.69	17.20	18.74	16.56	17.07	17.69	18.20	19.73
	4H	16.01	16.48	17.13	17.59	19.15	17.02	17.49	18.15	18.61	20.16
	6H	16.23	16.63	17.36	17.77	19.31	17.24	17.64	18.37	18.78	20.32
	8H	16.28	16.66	17.41	17.79	19.35	17.28	17.66	18.42	18.79	20.35
	12H	16.27	16.61	17.43	17.76	19.32	17.26	17.60	18.41	18.75	20.31
8H	4H	16.39	16.77	17.53	17.90	19.46	17.22	17.60	18.36	18.73	20.29
	6H	16.73	17.04	17.89	18.22	19.77	17.52	17.84	18.68	19.01	20.57
	8H	16.85	17.12	18.01	18.27	19.85	17.62	17.89	18.78	19.04	20.62
	12H	16.88	17.12	18.04	18.26	19.88	17.63	17.86	18.79	19.01	20.63
12H	4H	16.39	16.73	17.54	17.87	19.44	17.18	17.52	18.33	18.67	20.23
	6H	16.80	17.08	17.97	18.23	19.81	17.54	17.82	18.71	18.97	20.55
	8H	16.94	17.18	18.11	18.33	19.94	17.65	17.89	18.82	19.04	20.65

END OF REPORT