

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: P1191240

Luminaire Tested: SQ2-FA-025U-100D-L835-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191240
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-025U-100D-L835-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

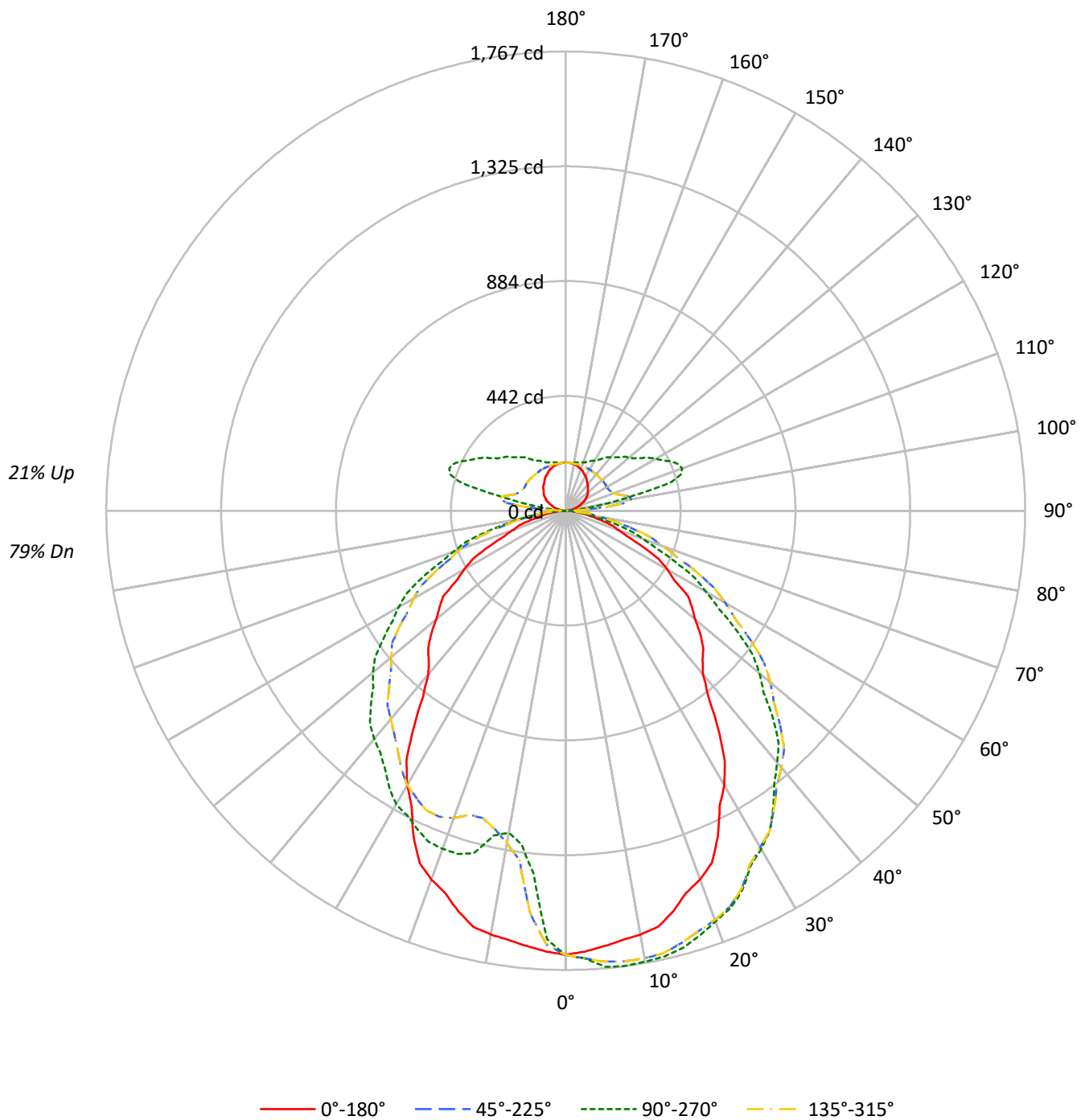
Lumens per Lamp: N/A
Luminaire Lumens: 5388.2 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45
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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70
2	95	87	81	76	91	84	78	73	77	72	68	71	67	64	65	62	59
3	87	77	69	63	83	74	67	61	68	62	58	62	58	54	57	54	50
4	80	68	60	54	76	66	58	52	60	54	49	56	50	46	51	47	44
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	33
7	63	50	41	35	60	48	40	35	44	38	33	41	36	31	38	33	30
8	58	45	37	32	55	44	36	31	41	34	29	38	32	28	35	30	27
9	54	41	34	28	52	40	33	28	37	31	26	35	29	25	32	28	24
10	51	38	31	26	49	37	30	25	35	28	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27587	27587	27587	27587
5°	27263	28550	27263	22754
10°	27143	28880	27143	20628
15°	26678	29113	26678	22803
20°	25943	28902	25943	23782
25°	24658	28668	24658	24068
30°	22717	28027	22717	24322
35°	20101	27411	20101	23887
40°	17308	26660	17308	24148
45°	17086	25706	17086	24195
50°	16302	24453	16302	24287
55°	16217	22556	16217	24048
60°	14541	20102	14541	23951
65°	12397	17712	12397	23278
70°	10003	15007	10003	21569
75°	8677	12395	8677	19831
80°	7392	9233	7392	16011
85°	4909	4909	4909	9818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 26613 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	2.9
10°-20°	429.6	8.0
20°-30°	652.4	12.1
30°-40°	765.8	14.2
40°-50°	777.1	14.4
50°-60°	680.8	12.6
60°-70°	483.0	9.0
70°-80°	248.7	4.6
80°-90°	52.6	1.0
90°-100°	74.6	1.4
100°-110°	232.1	4.3
110°-120°	227.1	4.2
120°-130°	185.4	3.4
130°-140°	151.7	2.8
140°-150°	118.4	2.2
150°-160°	85.4	1.6
160°-170°	52.2	1.0
170°-180°	17.6	0.3
0°-30°	1235.7	22.9
0°-40°	2001.5	37.1
0°-60°	3459.5	64.2
0°-90°	4243.7	78.8
90°-120°	533.8	9.9
90°-150°	989.2	18.4
90°-180°	1144.0	21.2
0°-180°	5388.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1709	1709	1709	1709	1709	
5°	1682	1762	1682	1404	1682	160
15°	1596	1742	1596	1364	1596	448
25°	1384	1609	1384	1351	1384	632
35°	1020	1391	1020	1212	1020	635
45°	748	1126	748	1060	748	572
55°	576	801	576	854	576	498
65°	324	464	324	609	324	324
75°	139	199	139	318	139	150
85°	26	26	26	53	26	33
90°	0	3	0	3	0	1
95°	10	33	10	33	10	12
105°	41	416	41	416	41	43
115°	72	448	72	448	72	71
125°	101	353	101	353	101	89
135°	121	292	121	292	121	94
145°	141	244	141	244	141	89
155°	162	208	162	208	162	75
165°	178	192	178	192	178	50
175°	184	184	184	184	184	17
180°	184	184	184	184	184	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6
2.5°	1698.0	1723.9	1724.5	1724.5	1724.5	1724.5	1724.5	1723.9	1698.0	1698.0	1671.5
5°	1682.1	1727.4	1741.7	1748.6	1761.5	1748.6	1741.7	1727.4	1682.1	1662.6	1556.2
7.5°	1666.2	1727.0	1748.3	1760.4	1766.8	1760.4	1748.3	1727.0	1666.2	1579.4	1356.3
10°	1655.6	1726.8	1748.3	1755.1	1761.5	1755.1	1748.3	1726.8	1655.6	1480.8	1298.0
12.5°	1639.7	1716.1	1743.0	1749.8	1756.2	1749.8	1743.0	1716.1	1639.7	1392.3	1255.6
15°	1596.0	1699.6	1721.8	1735.2	1741.7	1735.2	1721.8	1699.6	1596.0	1317.6	1225.1
17.5°	1541.7	1667.3	1696.6	1708.7	1713.9	1708.7	1696.6	1667.3	1541.7	1250.3	1226.5
20°	1509.9	1645.9	1675.5	1682.1	1682.1	1682.1	1675.5	1645.9	1509.9	1218.5	1258.2
22.5°	1467.5	1619.0	1649.0	1650.4	1655.6	1650.4	1649.0	1619.0	1467.5	1181.3	1274.1
25°	1384.1	1558.9	1602.6	1596.3	1609.2	1596.3	1602.6	1558.9	1384.1	1131.5	1271.5
27.5°	1282.1	1502.2	1533.7	1540.4	1540.4	1540.4	1533.7	1502.2	1282.1	1082.6	1245.0
30°	1218.5	1464.6	1496.6	1503.3	1503.3	1503.3	1496.6	1464.6	1218.5	1050.2	1218.5
32.5°	1139.0	1431.7	1459.6	1460.9	1460.9	1460.9	1459.6	1431.7	1139.0	1017.3	1176.1
35°	1019.8	1376.0	1397.3	1397.2	1390.7	1397.2	1397.3	1376.0	1019.8	968.0	1125.8
37.5°	900.6	1304.7	1333.7	1324.3	1317.8	1324.3	1333.7	1304.7	900.6	917.5	1083.4
40°	821.2	1261.5	1291.4	1271.3	1264.9	1271.3	1291.4	1261.5	821.2	879.4	1046.3
42.5°	778.8	1213.9	1243.7	1218.4	1211.9	1218.4	1243.7	1213.9	778.8	842.2	1014.5
45°	748.3	1136.8	1165.5	1138.7	1125.8	1138.7	1165.5	1136.8	748.3	787.2	960.2
47.5°	702.0	1043.9	1084.7	1044.7	1031.8	1044.7	1084.7	1043.9	702.0	730.5	911.2
50°	649.0	985.7	1026.5	986.4	973.5	986.4	1026.5	985.7	649.0	687.8	874.1
52.5°	611.9	927.9	962.9	917.6	904.6	917.6	962.9	927.9	611.9	635.2	842.4
55°	576.1	841.6	867.5	820.7	801.3	820.7	867.5	841.6	576.1	556.7	781.4
57.5°	492.7	745.2	772.2	718.7	696.7	718.7	772.2	745.2	492.7	475.9	717.9
60°	450.3	676.9	708.6	654.9	622.5	654.9	708.6	676.9	450.3	417.9	675.5
62.5°	402.6	603.4	645.0	591.3	558.9	591.3	645.0	603.4	402.6	380.6	627.8
65°	324.5	499.3	549.7	495.9	463.6	495.9	549.7	499.3	324.5	337.4	549.7
67.5°	254.3	404.5	460.9	402.0	376.1	402.0	460.9	404.5	254.3	297.0	478.1
70°	211.9	341.4	397.3	343.8	317.9	343.8	397.3	341.4	211.9	270.2	430.5
72.5°	185.4	283.8	344.4	285.6	264.9	285.6	344.4	283.8	185.4	243.7	372.2
75°	139.1	197.3	264.9	211.6	198.7	211.6	264.9	197.3	139.1	197.3	291.4
77.5°	100.7	127.9	186.7	141.6	136.4	141.6	186.7	127.9	100.7	148.6	211.9
80°	79.5	85.9	139.1	99.3	99.3	99.3	139.1	85.9	79.5	111.8	158.9
82.5°	53.0	59.5	96.7	67.4	62.2	67.4	96.7	59.5	53.0	80.2	111.3
85°	26.5	26.5	39.7	26.5	26.5	26.5	39.7	26.5	26.5	39.4	53.0
87.5°	5.3	5.5	11.3	6.0	6.0	6.0	11.3	5.5	5.3	10.7	11.3
90°	0.0	1.1	3.4	3.4	3.4	3.4	3.4	1.1	0.0	1.1	3.4
92.5°	3.6	12.7	43.2	14.2	11.5	14.2	43.2	12.7	3.6	12.7	43.2
95°	10.2	30.1	136.9	50.5	32.8	50.5	136.9	30.1	10.2	30.1	136.9
97.5°	18.6	39.1	226.7	141.1	88.9	141.1	226.7	39.1	18.6	39.1	226.7
100°	24.9	43.7	255.7	239.2	159.5	239.2	255.7	43.7	24.9	43.7	255.7
102.5°	31.2	49.1	250.2	341.6	268.1	341.6	250.2	49.1	31.2	49.1	250.2
105°	40.7	57.3	228.5	436.2	416.3	436.2	228.5	57.3	40.7	57.3	228.5
107.5°	50.2	65.7	207.7	443.5	465.4	443.5	207.7	65.7	50.2	65.7	207.7
110°	56.6	72.1	196.8	433.1	476.3	433.1	196.8	72.1	56.6	72.1	196.8

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CATALOG NUMBER: SQ2-FA-025U-100D-L835-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	62.9	77.5	191.4	414.4	469.0	414.4	191.4	77.5	62.9	77.5	191.4
115°	72.4	85.7	185.5	382.7	448.0	382.7	185.5	85.7	72.4	85.7	185.5
117.5°	81.7	93.8	183.0	352.4	419.3	352.4	183.0	93.8	81.7	93.8	183.0
120°	87.1	99.3	182.1	335.2	399.3	335.2	182.1	99.3	87.1	99.3	182.1
122.5°	92.5	104.7	183.0	320.6	379.4	320.6	183.0	104.7	92.5	104.7	183.0
125°	100.7	111.7	183.3	301.0	353.0	301.0	183.3	111.7	100.7	111.7	183.3
127.5°	107.2	118.5	183.3	286.3	330.6	286.3	183.3	118.5	107.2	118.5	183.3
130°	110.9	123.0	183.3	278.1	317.9	278.1	183.3	123.0	110.9	123.0	183.3
132.5°	115.4	127.6	182.4	270.8	307.9	270.8	182.4	127.6	115.4	127.6	182.4
135°	121.0	134.3	182.1	259.8	291.9	259.8	182.1	134.3	121.0	134.3	182.1
137.5°	127.6	139.8	182.1	248.9	278.1	248.9	182.1	139.8	127.6	139.8	182.1
140°	131.2	143.4	182.1	241.6	268.1	241.6	182.1	143.4	131.2	143.4	182.1
142.5°	135.8	147.0	182.1	234.3	258.2	234.3	182.1	147.0	135.8	147.0	182.1
145°	141.4	152.5	182.1	224.4	244.4	224.4	182.1	152.5	141.4	152.5	182.1
147.5°	148.2	157.7	183.3	215.3	231.0	215.3	183.3	157.7	148.2	157.7	183.3
150°	152.7	160.5	183.3	210.7	222.9	210.7	183.3	160.5	152.7	160.5	183.3
152.5°	156.3	163.2	183.3	206.1	216.5	206.1	183.3	163.2	156.3	163.2	183.3
155°	161.8	167.3	183.3	201.5	208.2	201.5	183.3	167.3	161.8	167.3	183.3
157.5°	167.2	171.4	183.3	197.4	201.6	197.4	183.3	171.4	167.2	171.4	183.3
160°	170.8	174.1	183.3	194.7	198.0	194.7	183.3	174.1	170.8	174.1	183.3
162.5°	173.5	176.0	183.3	192.8	195.3	192.8	183.3	176.0	173.5	176.0	183.3
165°	177.6	178.7	184.4	190.1	192.3	190.1	184.4	178.7	177.6	178.7	184.4
167.5°	180.1	180.3	183.3	188.5	189.6	188.5	183.3	180.3	180.1	180.3	183.3
170°	181.0	182.1	183.3	186.7	187.8	186.7	183.3	182.1	181.0	182.1	183.3
172.5°	182.8	183.0	184.2	185.8	186.0	185.8	184.2	183.0	182.8	183.0	184.2
175°	184.4	184.4	184.4	185.5	184.4	185.5	184.4	184.4	184.4	184.4	184.4
177.5°	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4
180°	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1708.6	1708.6	1708.6	1708.6	1708.6	1708.6
2.5°	1655.5	1650.3	1655.5	1671.5	1698.0	1698.0
5°	1436.3	1403.9	1436.3	1556.2	1662.6	1682.1
7.5°	1305.7	1295.3	1305.7	1356.3	1579.4	1666.2
10°	1258.2	1258.2	1258.2	1298.0	1480.8	1655.6
12.5°	1253.5	1279.4	1253.5	1255.6	1392.3	1639.7
15°	1331.8	1364.2	1331.8	1225.1	1317.6	1596.0
17.5°	1358.2	1384.1	1358.2	1226.5	1250.3	1541.7
20°	1358.2	1384.1	1358.2	1258.2	1218.5	1509.9
22.5°	1352.9	1378.8	1352.9	1274.1	1181.3	1467.5
25°	1338.0	1351.0	1338.0	1271.5	1131.5	1384.1
27.5°	1311.4	1320.5	1311.4	1245.0	1082.6	1282.1
30°	1285.2	1304.6	1285.2	1218.5	1050.2	1218.5
32.5°	1258.3	1262.2	1258.3	1176.1	1017.3	1139.0
35°	1218.4	1211.9	1218.4	1125.8	968.0	1019.8
37.5°	1164.4	1172.2	1164.4	1083.4	917.5	900.6
40°	1132.7	1145.7	1132.7	1046.3	879.4	821.2
42.5°	1100.9	1113.9	1100.9	1014.5	842.2	778.8
45°	1053.1	1059.6	1053.1	960.2	787.2	748.3
47.5°	997.5	1003.9	997.5	911.2	730.5	702.0
50°	960.4	966.9	960.4	874.1	687.8	649.0
52.5°	918.0	924.5	918.0	842.4	635.2	611.9
55°	854.3	854.3	854.3	781.4	556.7	576.1
57.5°	781.6	789.4	781.6	717.9	475.9	492.7
60°	728.8	741.7	728.8	675.5	417.9	450.3
62.5°	681.0	688.7	681.0	627.8	380.6	402.6
65°	602.8	609.3	602.8	549.7	337.4	324.5
67.5°	515.3	520.5	515.3	478.1	297.0	254.3
70°	456.9	456.9	456.9	430.5	270.2	211.9
72.5°	398.8	404.0	398.8	372.2	243.7	185.4
75°	311.4	317.9	311.4	291.4	197.3	139.1
77.5°	224.0	230.5	224.0	211.9	148.6	100.7
80°	165.7	172.2	165.7	158.9	111.8	79.5
82.5°	117.9	119.2	117.9	111.3	80.2	53.0
85°	53.0	53.0	53.0	53.0	39.4	26.5
87.5°	11.3	11.3	11.3	11.3	10.7	5.3
90°	3.4	3.4	3.4	3.4	1.1	0.0
92.5°	14.2	11.5	14.2	43.2	12.7	3.6
95°	50.5	32.8	50.5	136.9	30.1	10.2
97.5°	141.1	88.9	141.1	226.7	39.1	18.6
100°	239.2	159.5	239.2	255.7	43.7	24.9
102.5°	341.6	268.1	341.6	250.2	49.1	31.2
105°	436.2	416.3	436.2	228.5	57.3	40.7
107.5°	443.5	465.4	443.5	207.7	65.7	50.2
110°	433.1	476.3	433.1	196.8	72.1	56.6

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	414.4	469.0	414.4	191.4	77.5	62.9
115°	382.7	448.0	382.7	185.5	85.7	72.4
117.5°	352.4	419.3	352.4	183.0	93.8	81.7
120°	335.2	399.3	335.2	182.1	99.3	87.1
122.5°	320.6	379.4	320.6	183.0	104.7	92.5
125°	301.0	353.0	301.0	183.3	111.7	100.7
127.5°	286.3	330.6	286.3	183.3	118.5	107.2
130°	278.1	317.9	278.1	183.3	123.0	110.9
132.5°	270.8	307.9	270.8	182.4	127.6	115.4
135°	259.8	291.9	259.8	182.1	134.3	121.0
137.5°	248.9	278.1	248.9	182.1	139.8	127.6
140°	241.6	268.1	241.6	182.1	143.4	131.2
142.5°	234.3	258.2	234.3	182.1	147.0	135.8
145°	224.4	244.4	224.4	182.1	152.5	141.4
147.5°	215.3	231.0	215.3	183.3	157.7	148.2
150°	210.7	222.9	210.7	183.3	160.5	152.7
152.5°	206.1	216.5	206.1	183.3	163.2	156.3
155°	201.5	208.2	201.5	183.3	167.3	161.8
157.5°	197.4	201.6	197.4	183.3	171.4	167.2
160°	194.7	198.0	194.7	183.3	174.1	170.8
162.5°	192.8	195.3	192.8	183.3	176.0	173.5
165°	190.1	192.3	190.1	184.4	178.7	177.6
167.5°	188.5	189.6	188.5	183.3	180.3	180.1
170°	186.7	187.8	186.7	183.3	182.1	181.0
172.5°	185.8	186.0	185.8	184.2	183.0	182.8
175°	185.5	184.4	185.5	184.4	184.4	184.4
177.5°	184.4	184.4	184.4	184.4	184.4	184.4
180°	184.4	184.4	184.4	184.4	184.4	184.4

TEST NUMBER: P1191240

CATALOG NUMBER: SQ2-FA-025U-100D-L835-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	20.20	21.39	20.86	22.07	22.86	21.43	22.62	22.09	23.30	24.09
	3H	21.31	22.39	21.99	23.08	23.90	22.69	23.76	23.37	24.46	25.28
	4H	21.68	22.69	22.38	23.39	24.23	23.10	24.11	23.80	24.81	25.65
	6H	21.86	22.79	22.57	23.51	24.36	23.28	24.21	23.99	24.92	25.77
	8H	21.91	22.80	22.63	23.53	24.38	23.31	24.20	24.03	24.93	25.79
	12H	21.91	22.76	22.64	23.49	24.37	23.31	24.15	24.03	24.88	25.76
4H	2H	21.17	22.18	21.87	22.88	23.72	22.08	23.09	22.78	23.79	24.63
	3H	22.57	23.41	23.28	24.15	25.00	23.56	24.40	24.27	25.14	26.00
	4H	23.03	23.79	23.76	24.53	25.42	24.04	24.81	24.77	25.55	26.43
	6H	23.27	23.93	24.02	24.70	25.59	24.28	24.94	25.03	25.71	26.60
	8H	23.34	23.95	24.09	24.72	25.62	24.34	24.96	25.09	25.72	26.62
	12H	23.35	23.91	24.13	24.70	25.61	24.34	24.90	25.12	25.68	26.60
8H	4H	23.45	24.07	24.21	24.83	25.74	24.28	24.90	25.03	25.66	26.57
	6H	23.81	24.32	24.59	25.13	26.04	24.60	25.11	25.39	25.92	26.83
	8H	23.93	24.38	24.72	25.19	26.11	24.70	25.15	25.49	25.96	26.88
	12H	23.98	24.38	24.78	25.18	26.16	24.73	25.13	25.53	25.92	26.91
12H	4H	23.47	24.03	24.24	24.81	25.72	24.26	24.82	25.04	25.60	26.52
	6H	23.89	24.34	24.68	25.15	26.07	24.63	25.08	25.42	25.89	26.81
	8H	24.05	24.45	24.84	25.24	26.22	24.75	25.15	25.55	25.95	26.93