

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: P1428583

Luminaire Tested: SQ2W-WBN-0U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428583
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-WBN-0U-100D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - WHITE DISCREET BAFFLE, NARROW 35-DEGREE OPTIC
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

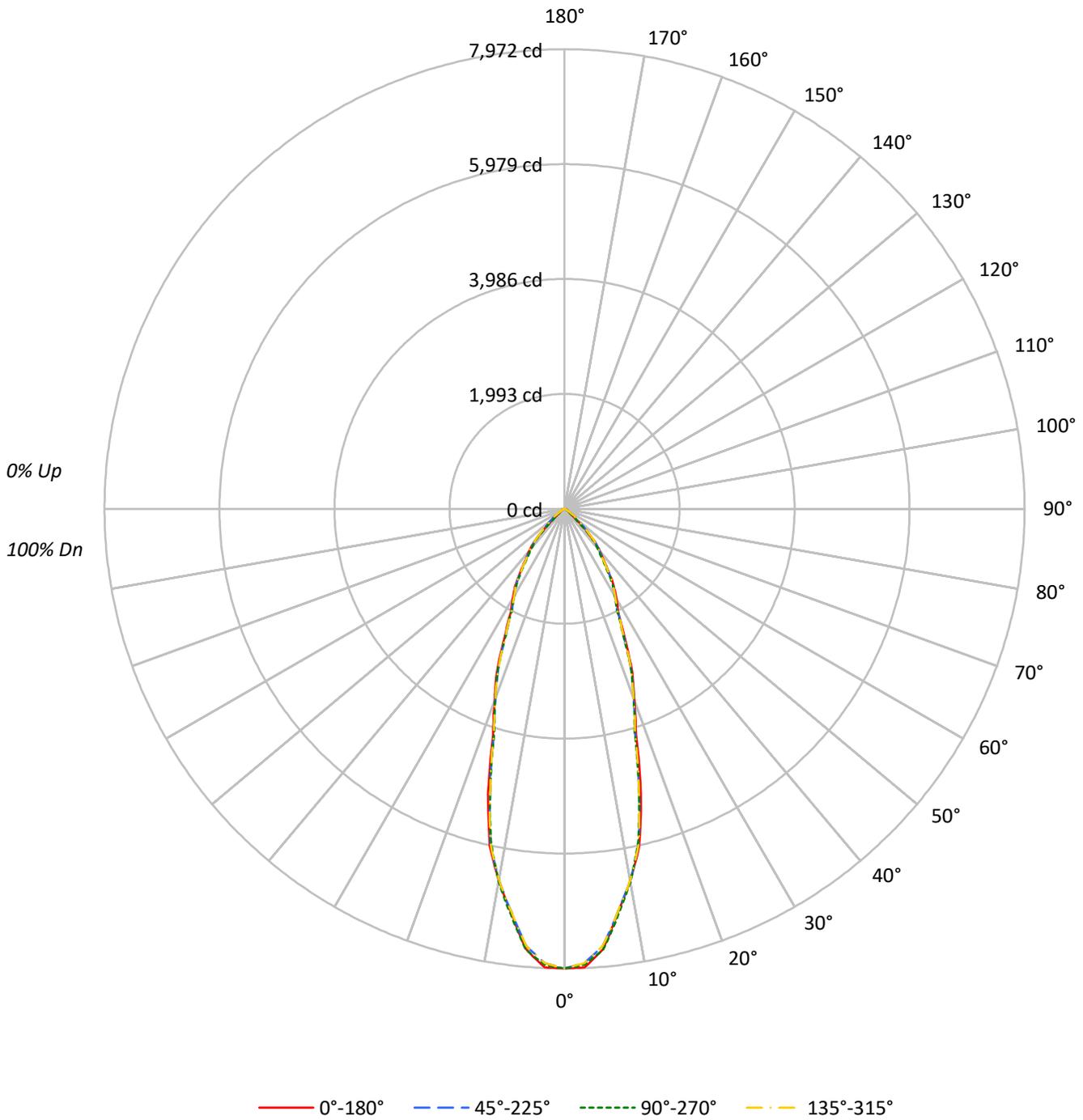
Lumens per Lamp: N/A
Luminaire Lumens: 4629.4 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
Input Voltage (V): 120
Input Current (A_{in}): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	128719	128719	128719	128719
5°	124282	124420	124282	124420
10°	107424	107680	107424	107680
15°	85483	83119	85483	83119
20°	60725	60361	60725	60361
25°	43689	42529	43689	42529
30°	33381	32406	33381	32406
35°	26203	25089	26203	25089
40°	19852	18630	19852	18630
45°	11108	9914	11108	9914
50°	3908	3446	3908	3446
55°	2390	2269	2390	2269
60°	1828	1689	1828	1689
65°	1673	1566	1673	1566
70°	1600	1468	1600	1468
75°	1497	1410	1497	1410
80°	1311	1311	1311	1311
85°	1315	1056	1315	1056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 13173 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.0	14.9
10°-20°	1375.4	29.7
20°-30°	1139.0	24.6
30°-40°	819.4	17.7
40°-50°	417.4	9.0
50°-60°	108.5	2.3
60°-70°	45.1	1.0
70°-80°	25.0	0.5
80°-90°	7.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3206.5	69.3
0°-40°	4025.9	87.0
0°-60°	4551.9	98.3
0°-90°	4629.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4629.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7972	7972	7972	7972	7972	
5°	7668	7677	7668	7677	7668	692
15°	5114	4973	5114	4973	5114	1388
25°	2452	2387	2452	2387	2452	1153
35°	1329	1273	1329	1273	1329	834
45°	486	434	486	434	486	389
55°	85	81	85	81	85	83
65°	44	41	44	41	44	44
75°	24	23	24	23	24	25
85°	7	6	7	6	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4
2.5°	7959.9	7953.9	7947.9	7921.1	7887.4	7884.6	7912.8	7932.1	7925.1	7918.1	7925.1
5°	7668.3	7663.3	7658.2	7635.3	7606.4	7616.4	7665.5	7699.4	7688.1	7676.8	7688.1
7.5°	7066.1	7070.4	7074.6	7062.9	7045.8	7058.9	7102.3	7131.8	7119.7	7107.7	7119.7
10°	6552.4	6563.7	6575.0	6559.0	6533.9	6553.0	6616.5	6653.5	6610.7	6568.0	6610.7
12.5°	5985.6	5978.3	5971.0	5956.3	5939.2	5935.8	5946.0	5947.7	5924.1	5900.4	5924.1
15°	5114.1	5087.7	5061.3	5020.7	4975.5	4960.7	4976.4	4986.5	4979.6	4972.7	4979.6
17.5°	4119.3	4129.5	4139.6	4112.2	4072.2	4051.5	4050.0	4046.9	4039.1	4031.3	4039.1
20°	3534.3	3537.5	3540.6	3523.5	3499.6	3493.9	3506.5	3515.6	3514.4	3513.1	3514.4
22.5°	3063.6	3064.3	3064.9	3042.2	3011.8	3005.9	3024.5	3035.6	3024.3	3013.0	3024.3
25°	2452.4	2450.5	2448.6	2433.5	2414.0	2399.6	2390.2	2383.6	2385.4	2387.3	2385.4
27.5°	2011.1	2003.3	1995.5	1982.6	1968.1	1963.9	1970.2	1973.8	1969.1	1964.5	1969.1
30°	1790.5	1784.2	1777.9	1765.0	1750.0	1744.3	1748.1	1749.5	1743.8	1738.2	1743.8
32.5°	1592.5	1592.7	1593.0	1581.4	1565.8	1557.1	1555.3	1553.0	1548.8	1544.7	1548.8
35°	1329.4	1333.2	1337.0	1327.5	1313.7	1302.1	1292.7	1284.2	1278.5	1272.9	1278.5
37.5°	1094.7	1098.2	1101.7	1093.8	1082.1	1069.4	1055.5	1044.0	1039.2	1034.4	1039.2
40°	941.9	944.4	946.9	941.4	933.3	921.0	904.7	891.5	887.7	883.9	887.7
42.5°	775.6	786.2	796.7	793.2	785.1	773.3	758.0	744.4	736.1	727.8	736.1
45°	486.5	519.8	553.1	568.1	576.9	572.8	555.8	531.0	482.6	434.2	482.6
47.5°	246.1	292.2	338.4	371.5	400.3	391.1	344.0	296.7	249.2	201.7	249.2
50°	155.6	187.6	219.7	260.2	303.6	294.2	231.9	179.9	158.6	137.2	158.6
52.5°	119.4	135.8	152.3	190.8	236.7	232.3	177.6	133.7	121.8	110.0	121.8
55°	84.9	91.1	97.4	118.8	145.2	143.6	114.1	90.7	85.6	80.6	85.6
57.5°	65.6	69.1	72.7	80.6	90.0	89.2	78.0	68.8	65.7	62.5	65.7
60°	56.6	59.1	61.6	65.5	69.9	69.3	63.6	58.6	55.5	52.3	55.5
62.5°	50.9	52.4	53.9	55.7	57.6	56.7	53.1	50.1	48.9	47.8	48.9
65°	43.8	44.5	45.1	45.3	45.3	44.6	43.4	42.3	41.6	41.0	41.6
67.5°	37.3	38.0	38.6	38.7	38.5	38.2	37.5	36.9	36.3	35.6	36.3
70°	33.9	34.6	35.2	34.9	34.3	33.6	33.0	32.4	31.7	31.1	31.7
72.5°	29.4	30.0	30.7	30.4	29.7	29.4	29.2	29.0	28.3	27.7	28.3
75°	24.0	24.0	24.0	24.0	24.0	23.7	23.1	22.6	22.6	22.6	22.6
77.5°	18.7	18.8	18.9	18.5	17.9	17.5	17.5	17.4	16.9	16.4	16.9
80°	14.1	14.8	15.4	15.1	14.5	14.1	14.1	14.1	14.1	14.1	14.1
82.5°	11.9	12.0	12.1	11.7	11.1	10.7	10.7	10.7	10.7	10.7	10.7
85°	7.1	7.1	7.1	6.6	6.0	6.0	6.6	6.9	6.3	5.7	6.3
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4
2.5°	7932.1	7912.8	7884.6	7887.4	7921.1	7947.9	7953.9	7959.9	7953.9	7947.9	7921.1
5°	7699.4	7665.5	7616.4	7606.4	7635.3	7658.2	7663.3	7668.3	7663.3	7658.2	7635.3
7.5°	7131.8	7102.3	7058.9	7045.8	7062.9	7074.6	7070.4	7066.1	7070.4	7074.6	7062.9
10°	6653.5	6616.5	6553.0	6533.9	6559.0	6575.0	6563.7	6552.4	6563.7	6575.0	6559.0
12.5°	5947.7	5946.0	5935.8	5939.2	5956.3	5971.0	5978.3	5985.6	5978.3	5971.0	5956.3
15°	4986.5	4976.4	4960.7	4975.5	5020.7	5061.3	5087.7	5114.1	5087.7	5061.3	5020.7
17.5°	4046.9	4050.0	4051.5	4072.2	4112.2	4139.6	4129.5	4119.3	4129.5	4139.6	4112.2
20°	3515.6	3506.5	3493.9	3499.6	3523.5	3540.6	3537.5	3534.3	3537.5	3540.6	3523.5
22.5°	3035.6	3024.5	3005.9	3011.8	3042.2	3064.9	3064.3	3063.6	3064.3	3064.9	3042.2
25°	2383.6	2390.2	2399.6	2414.0	2433.5	2448.6	2450.5	2452.4	2450.5	2448.6	2433.5
27.5°	1973.8	1970.2	1963.9	1968.1	1982.6	1995.5	2003.3	2011.1	2003.3	1995.5	1982.6
30°	1749.5	1748.1	1744.3	1750.0	1765.0	1777.9	1784.2	1790.5	1784.2	1777.9	1765.0
32.5°	1553.0	1555.3	1557.1	1565.8	1581.4	1593.0	1592.7	1592.5	1592.7	1593.0	1581.4
35°	1284.2	1292.7	1302.1	1313.7	1327.5	1337.0	1333.2	1329.4	1333.2	1337.0	1327.5
37.5°	1044.0	1055.5	1069.4	1082.1	1093.8	1101.7	1098.2	1094.7	1098.2	1101.7	1093.8
40°	891.5	904.7	921.0	933.3	941.4	946.9	944.4	941.9	944.4	946.9	941.4
42.5°	744.4	758.0	773.3	785.1	793.2	796.7	786.2	775.6	786.2	796.7	793.2
45°	531.0	555.8	572.8	576.9	568.1	553.1	519.8	486.5	519.8	553.1	568.1
47.5°	296.7	344.0	391.1	400.3	371.5	338.4	292.2	246.1	292.2	338.4	371.5
50°	179.9	231.9	294.2	303.6	260.2	219.7	187.6	155.6	187.6	219.7	260.2
52.5°	133.7	177.6	232.3	236.7	190.8	152.3	135.8	119.4	135.8	152.3	190.8
55°	90.7	114.1	143.6	145.2	118.8	97.4	91.1	84.9	91.1	97.4	118.8
57.5°	68.8	78.0	89.2	90.0	80.6	72.7	69.1	65.6	69.1	72.7	80.6
60°	58.6	63.6	69.3	69.9	65.5	61.6	59.1	56.6	59.1	61.6	65.5
62.5°	50.1	53.1	56.7	57.6	55.7	53.9	52.4	50.9	52.4	53.9	55.7
65°	42.3	43.4	44.6	45.3	45.3	45.1	44.5	43.8	44.5	45.1	45.3
67.5°	36.9	37.5	38.2	38.5	38.7	38.6	38.0	37.3	38.0	38.6	38.7
70°	32.4	33.0	33.6	34.3	34.9	35.2	34.6	33.9	34.6	35.2	34.9
72.5°	29.0	29.2	29.4	29.7	30.4	30.7	30.0	29.4	30.0	30.7	30.4
75°	22.6	23.1	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
77.5°	17.4	17.5	17.5	17.9	18.5	18.9	18.8	18.7	18.8	18.9	18.5
80°	14.1	14.1	14.1	14.5	15.1	15.4	14.8	14.1	14.8	15.4	15.1
82.5°	10.7	10.7	10.7	11.1	11.7	12.1	12.0	11.9	12.0	12.1	11.7
85°	6.9	6.6	6.0	6.0	6.6	7.1	7.1	7.1	7.1	7.1	6.6
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4	7972.4
2.5°	7887.4	7884.6	7912.8	7932.1	7925.1	7918.1	7925.1	7932.1	7912.8	7884.6	7887.4
5°	7606.4	7616.4	7665.5	7699.4	7688.1	7676.8	7688.1	7699.4	7665.5	7616.4	7606.4
7.5°	7045.8	7058.9	7102.3	7131.8	7119.7	7107.7	7119.7	7131.8	7102.3	7058.9	7045.8
10°	6533.9	6553.0	6616.5	6653.5	6610.7	6568.0	6610.7	6653.5	6616.5	6553.0	6533.9
12.5°	5939.2	5935.8	5946.0	5947.7	5924.1	5900.4	5924.1	5947.7	5946.0	5935.8	5939.2
15°	4975.5	4960.7	4976.4	4986.5	4979.6	4972.7	4979.6	4986.5	4976.4	4960.7	4975.5
17.5°	4072.2	4051.5	4050.0	4046.9	4039.1	4031.3	4039.1	4046.9	4050.0	4051.5	4072.2
20°	3499.6	3493.9	3506.5	3515.6	3514.4	3513.1	3514.4	3515.6	3506.5	3493.9	3499.6
22.5°	3011.8	3005.9	3024.5	3035.6	3024.3	3013.0	3024.3	3035.6	3024.5	3005.9	3011.8
25°	2414.0	2399.6	2390.2	2383.6	2385.4	2387.3	2385.4	2383.6	2390.2	2399.6	2414.0
27.5°	1968.1	1963.9	1970.2	1973.8	1969.1	1964.5	1969.1	1973.8	1970.2	1963.9	1968.1
30°	1750.0	1744.3	1748.1	1749.5	1743.8	1738.2	1743.8	1749.5	1748.1	1744.3	1750.0
32.5°	1565.8	1557.1	1555.3	1553.0	1548.8	1544.7	1548.8	1553.0	1555.3	1557.1	1565.8
35°	1313.7	1302.1	1292.7	1284.2	1278.5	1272.9	1278.5	1284.2	1292.7	1302.1	1313.7
37.5°	1082.1	1069.4	1055.5	1044.0	1039.2	1034.4	1039.2	1044.0	1055.5	1069.4	1082.1
40°	933.3	921.0	904.7	891.5	887.7	883.9	887.7	891.5	904.7	921.0	933.3
42.5°	785.1	773.3	758.0	744.4	736.1	727.8	736.1	744.4	758.0	773.3	785.1
45°	576.9	572.8	555.8	531.0	482.6	434.2	482.6	531.0	555.8	572.8	576.9
47.5°	400.3	391.1	344.0	296.7	249.2	201.7	249.2	296.7	344.0	391.1	400.3
50°	303.6	294.2	231.9	179.9	158.6	137.2	158.6	179.9	231.9	294.2	303.6
52.5°	236.7	232.3	177.6	133.7	121.8	110.0	121.8	133.7	177.6	232.3	236.7
55°	145.2	143.6	114.1	90.7	85.6	80.6	85.6	90.7	114.1	143.6	145.2
57.5°	90.0	89.2	78.0	68.8	65.7	62.5	65.7	78.0	89.2	90.0	
60°	69.9	69.3	63.6	58.6	55.5	52.3	55.5	63.6	69.3	69.9	
62.5°	57.6	56.7	53.1	50.1	48.9	47.8	48.9	50.1	53.1	56.7	57.6
65°	45.3	44.6	43.4	42.3	41.6	41.0	41.6	42.3	43.4	44.6	45.3
67.5°	38.5	38.2	37.5	36.9	36.3	35.6	36.3	36.9	37.5	38.2	38.5
70°	34.3	33.6	33.0	32.4	31.7	31.1	31.7	32.4	33.0	33.6	34.3
72.5°	29.7	29.4	29.2	29.0	28.3	27.7	28.3	29.0	29.2	29.4	29.7
75°	24.0	23.7	23.1	22.6	22.6	22.6	22.6	22.6	23.1	23.7	24.0
77.5°	17.9	17.5	17.5	17.4	16.9	16.4	16.9	17.4	17.5	17.5	17.9
80°	14.5	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.5
82.5°	11.1	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	11.1
85°	6.0	6.0	6.6	6.9	6.3	5.7	6.3	6.9	6.6	6.0	6.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1428583

CATALOG NUMBER: SQ2W-WBN-0U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	7972.4	7972.4	7972.4	7972.4
2.5°	7921.1	7947.9	7953.9	7959.9
5°	7635.3	7658.2	7663.3	7668.3
7.5°	7062.9	7074.6	7070.4	7066.1
10°	6559.0	6575.0	6563.7	6552.4
12.5°	5956.3	5971.0	5978.3	5985.6
15°	5020.7	5061.3	5087.7	5114.1
17.5°	4112.2	4139.6	4129.5	4119.3
20°	3523.5	3540.6	3537.5	3534.3
22.5°	3042.2	3064.9	3064.3	3063.6
25°	2433.5	2448.6	2450.5	2452.4
27.5°	1982.6	1995.5	2003.3	2011.1
30°	1765.0	1777.9	1784.2	1790.5
32.5°	1581.4	1593.0	1592.7	1592.5
35°	1327.5	1337.0	1333.2	1329.4
37.5°	1093.8	1101.7	1098.2	1094.7
40°	941.4	946.9	944.4	941.9
42.5°	793.2	796.7	786.2	775.6
45°	568.1	553.1	519.8	486.5
47.5°	371.5	338.4	292.2	246.1
50°	260.2	219.7	187.6	155.6
52.5°	190.8	152.3	135.8	119.4
55°	118.8	97.4	91.1	84.9
57.5°	80.6	72.7	69.1	65.6
60°	65.5	61.6	59.1	56.6
62.5°	55.7	53.9	52.4	50.9
65°	45.3	45.1	44.5	43.8
67.5°	38.7	38.6	38.0	37.3
70°	34.9	35.2	34.6	33.9
72.5°	30.4	30.7	30.0	29.4
75°	24.0	24.0	24.0	24.0
77.5°	18.5	18.9	18.8	18.7
80°	15.1	15.4	14.8	14.1
82.5°	11.7	12.1	12.0	11.9
85°	6.6	7.1	7.1	7.1
87.5°	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1428583
 CATALOG NUMBER: SQ2W-WBN-0U-100D-L940-UNV-STD-W-WM-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	7.35	8.41	7.72	8.72	9.04	6.97	8.03	7.34	8.35	8.66
	3H	8.59	9.52	8.97	9.85	10.22	8.19	9.12	8.57	9.46	9.83
	4H	9.12	9.98	9.52	10.33	10.72	8.72	9.58	9.12	9.93	10.32
	6H	9.47	10.26	9.89	10.64	11.03	9.05	9.84	9.47	10.22	10.61
	8H	9.63	10.37	10.06	10.76	11.17	9.20	9.94	9.63	10.33	10.74
	12H	9.73	10.43	10.16	10.82	11.25	9.27	9.98	9.71	10.36	10.80
4H	2H	7.69	8.56	8.10	8.91	9.30	7.38	8.24	7.79	8.60	8.98
	3H	9.20	9.90	9.61	10.31	10.71	8.85	9.56	9.27	9.96	10.37
	4H	9.84	10.47	10.28	10.89	11.34	9.49	10.11	9.92	10.53	10.98
	6H	10.34	10.87	10.81	11.32	11.79	9.95	10.48	10.42	10.93	11.41
	8H	10.54	11.04	11.02	11.49	11.96	10.14	10.63	10.61	11.08	11.56
	12H	10.69	11.12	11.18	11.61	12.09	10.25	10.68	10.74	11.17	11.65
8H	4H	10.00	10.50	10.48	10.95	11.43	9.68	10.18	10.16	10.63	11.11
	6H	10.64	11.03	11.14	11.54	12.02	10.28	10.67	10.78	11.18	11.66
	8H	10.94	11.29	11.47	11.82	12.31	10.55	10.90	11.08	11.43	11.92
	12H	11.18	11.49	11.70	11.99	12.57	10.76	11.07	11.28	11.57	12.15
12H	4H	9.99	10.42	10.48	10.91	11.39	9.68	10.12	10.18	10.60	11.08
	6H	10.66	11.01	11.19	11.53	12.03	10.31	10.67	10.84	11.19	11.68
	8H	11.02	11.33	11.54	11.83	12.40	10.64	10.95	11.16	11.45	12.03