

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: P1428579

Luminaire Tested: SQ2W-WBN-0U-075D-L935-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428579
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-075D-L935-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 750 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

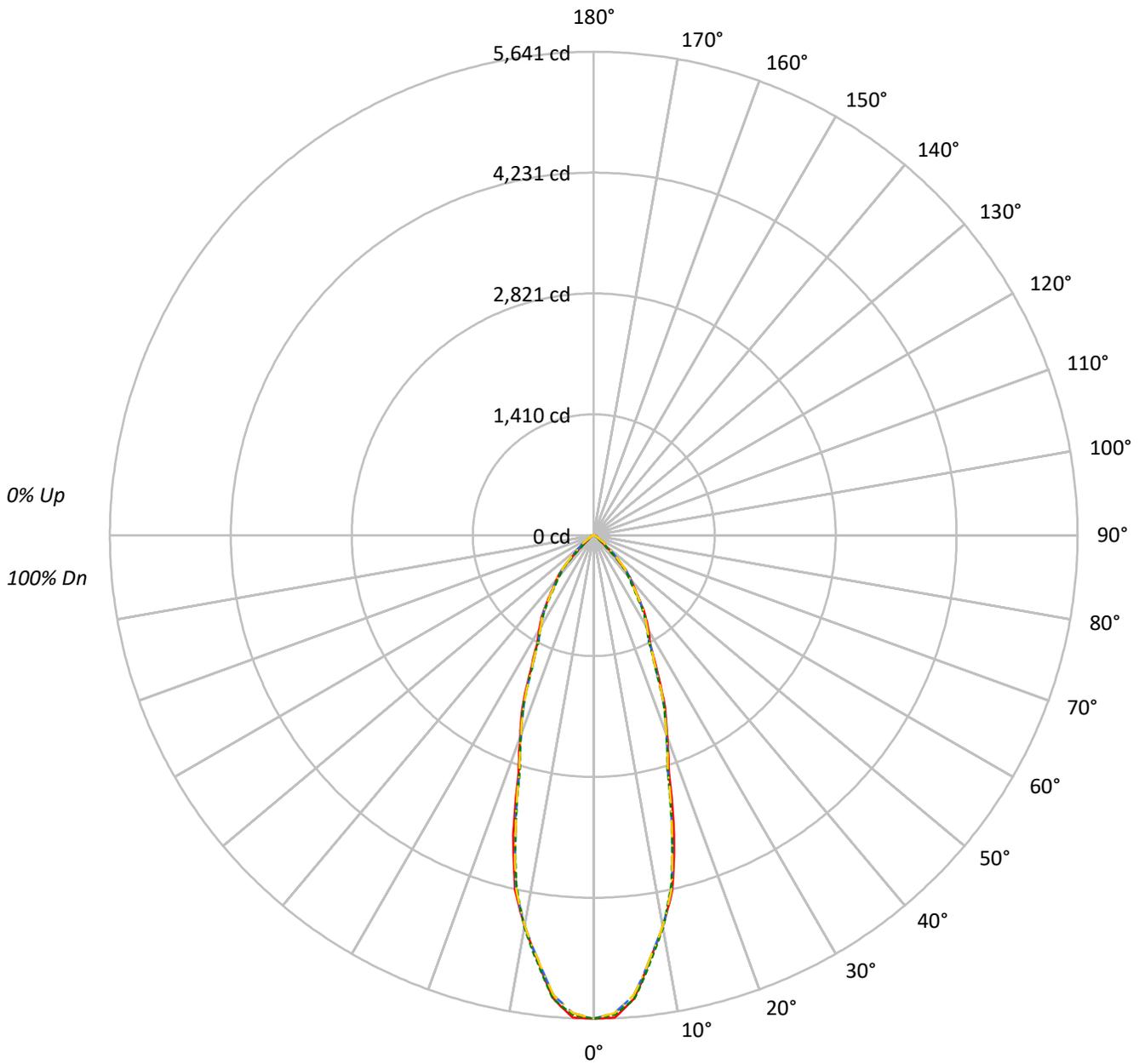
Lumens per Lamp: N/A
Luminaire Lumens: 3275.6 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
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



— 0°-180° - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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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	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°	91077	91077	91077	91077
5°	87937	88034	87937	88034
10°	76010	76191	76010	76191
15°	60484	58812	60484	58812
20°	42968	42710	42968	42710
25°	30912	30092	30912	30092
30°	23619	22929	23619	22929
35°	18541	17751	18541	17751
40°	14047	13181	14047	13181
45°	7859	7014	7859	7014
50°	2765	2439	2765	2439
55°	1689	1604	1689	1604
60°	1292	1195	1292	1195
65°	1184	1108	1184	1108
70°	1133	1039	1133	1039
75°	1060	998	1060	998
80°	930	930	930	930
85°	926	741	926	741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 9321 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.7	14.9
10°-20°	973.2	29.7
20°-30°	805.9	24.6
30°-40°	579.8	17.7
40°-50°	295.3	9.0
50°-60°	76.8	2.3
60°-70°	31.9	1.0
70°-80°	17.7	0.5
80°-90°	5.3	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°	2268.8	69.3
0°-40°	2848.6	87.0
0°-60°	3220.8	98.3
0°-90°	3275.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3275.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5641	5641	5641	5641	5641	
5°	5426	5432	5426	5432	5426	489
15°	3618	3518	3618	3518	3618	982
25°	1735	1689	1735	1689	1735	816
35°	941	901	941	901	941	590
45°	344	307	344	307	344	275
55°	60	57	60	57	60	59
65°	31	29	31	29	31	31
75°	17	16	17	16	17	18
85°	5	4	5	4	5	5
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°	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0
2.5°	5632.2	5627.9	5623.6	5604.7	5580.8	5578.9	5598.8	5612.5	5607.5	5602.5	5607.5
5°	5425.8	5422.3	5418.7	5402.5	5382.0	5389.1	5423.8	5447.8	5439.8	5431.8	5439.8
7.5°	4999.7	5002.7	5005.8	4997.5	4985.4	4994.7	5025.3	5046.2	5037.7	5029.1	5037.7
10°	4636.3	4644.3	4652.3	4640.9	4623.1	4636.7	4681.6	4707.8	4677.5	4647.3	4677.5
12.5°	4235.2	4230.0	4224.9	4214.5	4202.4	4200.0	4207.2	4208.4	4191.7	4174.9	4191.7
15°	3618.5	3599.9	3581.2	3552.5	3520.5	3510.0	3521.1	3528.3	3523.4	3518.5	3523.4
17.5°	2914.7	2921.9	2929.1	2909.6	2881.4	2866.7	2865.6	2863.4	2857.9	2852.4	2857.9
20°	2500.8	2503.0	2505.2	2493.1	2476.2	2472.2	2481.1	2487.5	2486.6	2485.8	2486.6
22.5°	2167.7	2168.2	2168.6	2152.6	2131.1	2126.9	2140.0	2147.9	2139.9	2131.9	2139.9
25°	1735.2	1733.9	1732.6	1721.9	1708.1	1697.9	1691.2	1686.5	1687.9	1689.2	1687.9
27.5°	1423.0	1417.5	1412.0	1402.9	1392.5	1389.6	1394.0	1396.6	1393.3	1390.0	1393.3
30°	1266.9	1262.4	1258.0	1248.9	1238.2	1234.2	1236.9	1237.9	1233.9	1229.9	1233.9
32.5°	1126.8	1127.0	1127.1	1118.9	1107.9	1101.8	1100.5	1098.8	1095.9	1093.0	1095.9
35°	940.7	943.3	946.0	939.3	929.5	921.3	914.6	908.6	904.6	900.6	904.6
37.5°	774.5	777.0	779.5	773.9	765.7	756.6	746.9	738.7	735.3	731.9	735.3
40°	666.5	668.2	670.0	666.1	660.4	651.7	640.1	630.8	628.1	625.4	628.1
42.5°	548.8	556.3	563.7	561.3	555.5	547.2	536.3	526.7	520.8	515.0	520.8
45°	344.2	367.8	391.4	401.9	408.2	405.3	393.3	375.7	341.5	307.2	341.5
47.5°	174.1	206.8	239.4	262.9	283.2	276.7	243.4	209.9	176.3	142.7	176.3
50°	110.1	132.8	155.4	184.1	214.8	208.1	164.1	127.3	112.2	97.1	112.2
52.5°	84.5	96.1	107.8	135.0	167.5	164.4	125.7	94.6	86.2	77.9	86.2
55°	60.0	64.5	68.9	84.1	102.7	101.6	80.7	64.2	60.6	57.0	60.6
57.5°	46.4	48.9	51.4	57.0	63.7	63.1	55.2	48.7	46.5	44.2	46.5
60°	40.0	41.8	43.6	46.4	49.5	49.0	45.0	41.5	39.2	37.0	39.2
62.5°	36.0	37.1	38.2	39.4	40.8	40.1	37.6	35.4	34.6	33.8	34.6
65°	31.0	31.5	31.9	32.0	32.0	31.6	30.7	29.9	29.5	29.0	29.5
67.5°	26.4	26.9	27.3	27.4	27.3	27.0	26.6	26.1	25.7	25.2	25.7
70°	24.0	24.5	24.9	24.7	24.2	23.8	23.3	22.9	22.5	22.0	22.5
72.5°	20.8	21.3	21.7	21.5	21.0	20.8	20.7	20.5	20.1	19.6	20.1
75°	17.0	17.0	17.0	17.0	17.0	16.8	16.3	16.0	16.0	16.0	16.0
77.5°	13.2	13.3	13.4	13.1	12.6	12.4	12.4	12.3	12.0	11.6	12.0
80°	10.0	10.5	10.9	10.7	10.2	10.0	10.0	10.0	10.0	10.0	10.0
82.5°	8.4	8.5	8.6	8.3	7.8	7.6	7.6	7.6	7.6	7.6	7.6
85°	5.0	5.0	5.0	4.7	4.2	4.2	4.7	4.9	4.4	4.0	4.4
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0
2.5°	5612.5	5598.8	5578.9	5580.8	5604.7	5623.6	5627.9	5632.2	5627.9	5623.6	5604.7
5°	5447.8	5423.8	5389.1	5382.0	5402.5	5418.7	5422.3	5425.8	5422.3	5418.7	5402.5
7.5°	5046.2	5025.3	4994.7	4985.4	4997.5	5005.8	5002.7	4999.7	5002.7	5005.8	4997.5
10°	4707.8	4681.6	4636.7	4623.1	4640.9	4652.3	4644.3	4636.3	4644.3	4652.3	4640.9
12.5°	4208.4	4207.2	4200.0	4202.4	4214.5	4224.9	4230.0	4235.2	4230.0	4224.9	4214.5
15°	3528.3	3521.1	3510.0	3520.5	3552.5	3581.2	3599.9	3618.5	3599.9	3581.2	3552.5
17.5°	2863.4	2865.6	2866.7	2881.4	2909.6	2929.1	2921.9	2914.7	2921.9	2929.1	2909.6
20°	2487.5	2481.1	2472.2	2476.2	2493.1	2505.2	2503.0	2500.8	2503.0	2505.2	2493.1
22.5°	2147.9	2140.0	2126.9	2131.1	2152.6	2168.6	2168.2	2167.7	2168.2	2168.6	2152.6
25°	1686.5	1691.2	1697.9	1708.1	1721.9	1732.6	1733.9	1735.2	1733.9	1732.6	1721.9
27.5°	1396.6	1394.0	1389.6	1392.5	1402.9	1412.0	1417.5	1423.0	1417.5	1412.0	1402.9
30°	1237.9	1236.9	1234.2	1238.2	1248.9	1258.0	1262.4	1266.9	1262.4	1258.0	1248.9
32.5°	1098.8	1100.5	1101.8	1107.9	1118.9	1127.1	1127.0	1126.8	1127.0	1127.1	1118.9
35°	908.6	914.6	921.3	929.5	939.3	946.0	943.3	940.7	943.3	946.0	939.3
37.5°	738.7	746.9	756.6	765.7	773.9	779.5	777.0	774.5	777.0	779.5	773.9
40°	630.8	640.1	651.7	660.4	666.1	670.0	668.2	666.5	668.2	670.0	666.1
42.5°	526.7	536.3	547.2	555.5	561.3	563.7	556.3	548.8	556.3	563.7	561.3
45°	375.7	393.3	405.3	408.2	401.9	391.4	367.8	344.2	367.8	391.4	401.9
47.5°	209.9	243.4	276.7	283.2	262.9	239.4	206.8	174.1	206.8	239.4	262.9
50°	127.3	164.1	208.1	214.8	184.1	155.4	132.8	110.1	132.8	155.4	184.1
52.5°	94.6	125.7	164.4	167.5	135.0	107.8	96.1	84.5	96.1	107.8	135.0
55°	64.2	80.7	101.6	102.7	84.1	68.9	64.5	60.0	64.5	68.9	84.1
57.5°	48.7	55.2	63.1	63.7	57.0	51.4	48.9	46.4	48.9	51.4	57.0
60°	41.5	45.0	49.0	49.5	46.4	43.6	41.8	40.0	41.8	43.6	46.4
62.5°	35.4	37.6	40.1	40.8	39.4	38.2	37.1	36.0	37.1	38.2	39.4
65°	29.9	30.7	31.6	32.0	32.0	31.9	31.5	31.0	31.5	31.9	32.0
67.5°	26.1	26.6	27.0	27.3	27.4	27.3	26.9	26.4	26.9	27.3	27.4
70°	22.9	23.3	23.8	24.2	24.7	24.9	24.5	24.0	24.5	24.9	24.7
72.5°	20.5	20.7	20.8	21.0	21.5	21.7	21.3	20.8	21.3	21.7	21.5
75°	16.0	16.3	16.8	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
77.5°	12.3	12.4	12.4	12.6	13.1	13.4	13.3	13.2	13.3	13.4	13.1
80°	10.0	10.0	10.0	10.2	10.7	10.9	10.5	10.0	10.5	10.9	10.7
82.5°	7.6	7.6	7.6	7.8	8.3	8.6	8.5	8.4	8.5	8.6	8.3
85°	4.9	4.7	4.2	4.2	4.7	5.0	5.0	5.0	5.0	5.0	4.7
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0	5641.0
2.5°	5580.8	5578.9	5598.8	5612.5	5607.5	5602.5	5607.5	5612.5	5598.8	5578.9	5580.8
5°	5382.0	5389.1	5423.8	5447.8	5439.8	5431.8	5439.8	5447.8	5423.8	5389.1	5382.0
7.5°	4985.4	4994.7	5025.3	5046.2	5037.7	5029.1	5037.7	5046.2	5025.3	4994.7	4985.4
10°	4623.1	4636.7	4681.6	4707.8	4677.5	4647.3	4677.5	4707.8	4681.6	4636.7	4623.1
12.5°	4202.4	4200.0	4207.2	4208.4	4191.7	4174.9	4191.7	4208.4	4207.2	4200.0	4202.4
15°	3520.5	3510.0	3521.1	3528.3	3523.4	3518.5	3523.4	3528.3	3521.1	3510.0	3520.5
17.5°	2881.4	2866.7	2865.6	2863.4	2857.9	2852.4	2857.9	2863.4	2865.6	2866.7	2881.4
20°	2476.2	2472.2	2481.1	2487.5	2486.6	2485.8	2486.6	2487.5	2481.1	2472.2	2476.2
22.5°	2131.1	2126.9	2140.0	2147.9	2139.9	2131.9	2139.9	2147.9	2140.0	2126.9	2131.1
25°	1708.1	1697.9	1691.2	1686.5	1687.9	1689.2	1687.9	1686.5	1691.2	1697.9	1708.1
27.5°	1392.5	1389.6	1394.0	1396.6	1393.3	1390.0	1393.3	1396.6	1394.0	1389.6	1392.5
30°	1238.2	1234.2	1236.9	1237.9	1233.9	1229.9	1233.9	1237.9	1236.9	1234.2	1238.2
32.5°	1107.9	1101.8	1100.5	1098.8	1095.9	1093.0	1095.9	1098.8	1100.5	1101.8	1107.9
35°	929.5	921.3	914.6	908.6	904.6	900.6	904.6	908.6	914.6	921.3	929.5
37.5°	765.7	756.6	746.9	738.7	735.3	731.9	735.3	738.7	746.9	756.6	765.7
40°	660.4	651.7	640.1	630.8	628.1	625.4	628.1	630.8	640.1	651.7	660.4
42.5°	555.5	547.2	536.3	526.7	520.8	515.0	520.8	526.7	536.3	547.2	555.5
45°	408.2	405.3	393.3	375.7	341.5	307.2	341.5	375.7	393.3	405.3	408.2
47.5°	283.2	276.7	243.4	209.9	176.3	142.7	176.3	209.9	243.4	276.7	283.2
50°	214.8	208.1	164.1	127.3	112.2	97.1	112.2	127.3	164.1	208.1	214.8
52.5°	167.5	164.4	125.7	94.6	86.2	77.9	86.2	94.6	125.7	164.4	167.5
55°	102.7	101.6	80.7	64.2	60.6	57.0	60.6	64.2	80.7	101.6	102.7
57.5°	63.7	63.1	55.2	48.7	46.5	44.2	46.5	48.7	55.2	63.1	63.7
60°	49.5	49.0	45.0	41.5	39.2	37.0	39.2	41.5	45.0	49.0	49.5
62.5°	40.8	40.1	37.6	35.4	34.6	33.8	34.6	35.4	37.6	40.1	40.8
65°	32.0	31.6	30.7	29.9	29.5	29.0	29.5	29.9	30.7	31.6	32.0
67.5°	27.3	27.0	26.6	26.1	25.7	25.2	25.7	26.1	26.6	27.0	27.3
70°	24.2	23.8	23.3	22.9	22.5	22.0	22.5	22.9	23.3	23.8	24.2
72.5°	21.0	20.8	20.7	20.5	20.1	19.6	20.1	20.5	20.7	20.8	21.0
75°	17.0	16.8	16.3	16.0	16.0	16.0	16.0	16.0	16.3	16.8	17.0
77.5°	12.6	12.4	12.4	12.3	12.0	11.6	12.0	12.3	12.4	12.4	12.6
80°	10.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.2
82.5°	7.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.8
85°	4.2	4.2	4.7	4.9	4.4	4.0	4.4	4.9	4.7	4.2	4.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P1428579

CATALOG NUMBER: SQ2W-WBN-0U-075D-L935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	5641.0	5641.0	5641.0	5641.0
2.5°	5604.7	5623.6	5627.9	5632.2
5°	5402.5	5418.7	5422.3	5425.8
7.5°	4997.5	5005.8	5002.7	4999.7
10°	4640.9	4652.3	4644.3	4636.3
12.5°	4214.5	4224.9	4230.0	4235.2
15°	3552.5	3581.2	3599.9	3618.5
17.5°	2909.6	2929.1	2921.9	2914.7
20°	2493.1	2505.2	2503.0	2500.8
22.5°	2152.6	2168.6	2168.2	2167.7
25°	1721.9	1732.6	1733.9	1735.2
27.5°	1402.9	1412.0	1417.5	1423.0
30°	1248.9	1258.0	1262.4	1266.9
32.5°	1118.9	1127.1	1127.0	1126.8
35°	939.3	946.0	943.3	940.7
37.5°	773.9	779.5	777.0	774.5
40°	666.1	670.0	668.2	666.5
42.5°	561.3	563.7	556.3	548.8
45°	401.9	391.4	367.8	344.2
47.5°	262.9	239.4	206.8	174.1
50°	184.1	155.4	132.8	110.1
52.5°	135.0	107.8	96.1	84.5
55°	84.1	68.9	64.5	60.0
57.5°	57.0	51.4	48.9	46.4
60°	46.4	43.6	41.8	40.0
62.5°	39.4	38.2	37.1	36.0
65°	32.0	31.9	31.5	31.0
67.5°	27.4	27.3	26.9	26.4
70°	24.7	24.9	24.5	24.0
72.5°	21.5	21.7	21.3	20.8
75°	17.0	17.0	17.0	17.0
77.5°	13.1	13.4	13.3	13.2
80°	10.7	10.9	10.5	10.0
82.5°	8.3	8.6	8.5	8.4
85°	4.7	5.0	5.0	5.0
87.5°	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1428579
 CATALOG NUMBER: SQ2W-WBN-0U-075D-L935-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	6.14	7.21	6.51	7.52	7.83	5.77	6.84	6.14	7.15	7.46
	3H	7.38	8.32	7.77	8.65	9.02	7.00	7.93	7.38	8.26	8.63
	4H	7.91	8.78	8.32	9.13	9.52	7.52	8.38	7.93	8.74	9.12
	6H	8.27	9.06	8.69	9.44	9.83	7.86	8.65	8.28	9.02	9.42
	8H	8.43	9.17	8.86	9.56	9.97	8.00	8.75	8.44	9.14	9.55
	12H	8.52	9.23	8.96	9.62	10.05	8.08	8.79	8.51	9.17	9.60
4H	2H	6.49	7.35	6.89	7.70	8.09	6.18	7.04	6.59	7.40	7.79
	3H	8.00	8.70	8.41	9.10	9.51	7.66	8.36	8.07	8.77	9.17
	4H	8.64	9.26	9.08	9.69	10.14	8.29	8.91	8.73	9.34	9.78
	6H	9.14	9.67	9.61	10.12	10.59	8.75	9.28	9.22	9.73	10.21
	8H	9.34	9.84	9.82	10.29	10.76	8.94	9.44	9.42	9.89	10.36
	12H	9.49	9.92	9.98	10.41	10.88	9.06	9.49	9.55	9.98	10.45
8H	4H	8.80	9.30	9.28	9.75	10.22	8.49	8.98	8.96	9.43	9.91
	6H	9.43	9.83	9.94	10.33	10.82	9.08	9.48	9.59	9.98	10.46
	8H	9.74	10.09	10.27	10.62	11.11	9.35	9.71	9.89	10.23	10.73
	12H	9.98	10.29	10.50	10.79	11.36	9.56	9.87	10.08	10.37	10.95
12H	4H	8.79	9.22	9.28	9.71	10.19	8.49	8.92	8.98	9.41	9.88
	6H	9.46	9.81	9.99	10.33	10.83	9.11	9.47	9.65	9.99	10.49
	8H	9.82	10.13	10.34	10.63	11.20	9.45	9.76	9.97	10.26	10.83