

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: P1428580

Luminaire Tested: SQ2W-WBN-0U-075D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428580
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-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 750 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

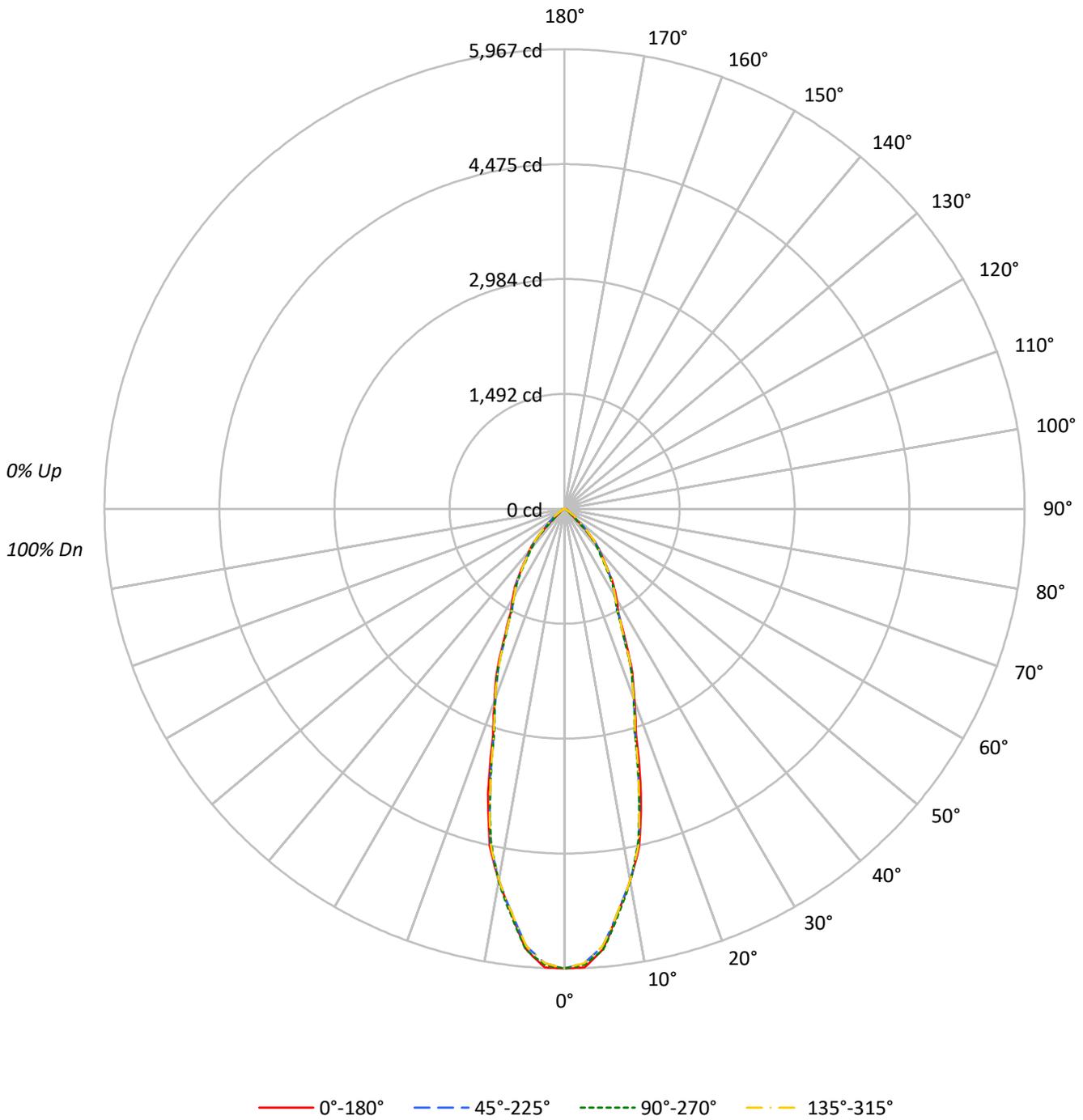
Lumens per Lamp: N/A
Luminaire Lumens: 3464.8 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
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	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°	96337	96337	96337	96337
5°	93018	93120	93018	93120
10°	80401	80591	80401	80591
15°	63979	62209	63979	62209
20°	45449	45176	45449	45176
25°	32699	31831	32699	31831
30°	24984	24253	24984	24253
35°	19612	18778	19612	18778
40°	14859	13944	14859	13944
45°	8314	7421	8314	7421
50°	2924	2580	2924	2580
55°	1787	1697	1787	1697
60°	1366	1266	1366	1266
65°	1253	1173	1253	1173
70°	1199	1100	1199	1100
75°	1123	1054	1123	1054
80°	986	986	986	986
85°	982	778	982	778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 9859 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.0	14.9
10°-20°	1029.4	29.7
20°-30°	852.5	24.6
30°-40°	613.3	17.7
40°-50°	312.4	9.0
50°-60°	81.2	2.3
60°-70°	33.7	1.0
70°-80°	18.7	0.5
80°-90°	5.6	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°	2399.9	69.3
0°-40°	3013.2	87.0
0°-60°	3406.8	98.3
0°-90°	3464.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3464.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5967	5967	5967	5967	5967	
5°	5739	5746	5739	5746	5739	518
15°	3828	3722	3828	3722	3828	1039
25°	1836	1787	1836	1787	1836	863
35°	995	953	995	953	995	624
45°	364	325	364	325	364	291
55°	64	60	64	60	64	62
65°	33	31	33	31	33	33
75°	18	17	18	17	18	19
85°	5	4	5	4	5	6
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°	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8
2.5°	5957.5	5953.0	5948.5	5928.4	5903.2	5901.2	5922.2	5936.7	5931.5	5926.2	5931.5
5°	5739.3	5735.5	5731.7	5714.6	5692.9	5700.4	5737.1	5762.5	5754.1	5745.6	5754.1
7.5°	5288.5	5291.7	5294.9	5286.1	5273.3	5283.2	5315.6	5337.7	5328.7	5319.7	5328.7
10°	4904.1	4912.6	4921.0	4909.0	4890.2	4904.6	4952.1	4979.7	4947.7	4915.7	4947.7
12.5°	4479.8	4474.4	4468.9	4458.0	4445.2	4442.6	4450.2	4451.5	4433.8	4416.1	4433.8
15°	3827.6	3807.8	3788.1	3757.7	3723.8	3712.8	3724.6	3732.1	3726.9	3721.7	3726.9
17.5°	3083.0	3090.6	3098.3	3077.7	3047.8	3032.3	3031.2	3028.9	3023.0	3017.2	3023.0
20°	2645.2	2647.6	2649.9	2637.1	2619.2	2615.0	2624.4	2631.2	2630.3	2629.3	2630.3
22.5°	2292.9	2293.4	2293.9	2276.9	2254.2	2249.7	2263.7	2272.0	2263.5	2255.1	2263.5
25°	1835.5	1834.0	1832.6	1821.3	1806.8	1795.9	1788.9	1783.9	1785.4	1786.8	1785.4
27.5°	1505.2	1499.4	1493.5	1483.9	1473.0	1469.9	1474.6	1477.2	1473.8	1470.3	1473.8
30°	1340.1	1335.4	1330.7	1321.0	1309.7	1305.5	1308.3	1309.4	1305.1	1300.9	1305.1
32.5°	1191.9	1192.1	1192.3	1183.6	1171.9	1165.4	1164.1	1162.3	1159.2	1156.1	1159.2
35°	995.0	997.8	1000.6	993.6	983.2	974.5	967.5	961.1	956.9	952.7	956.9
37.5°	819.3	821.9	824.6	818.7	809.9	800.4	790.0	781.3	777.8	774.2	777.8
40°	705.0	706.9	708.7	704.6	698.5	689.3	677.1	667.2	664.4	661.6	664.4
42.5°	580.5	588.4	596.3	593.7	587.6	578.8	567.3	557.1	550.9	544.7	550.9
45°	364.1	389.1	414.0	425.2	431.8	428.7	416.0	397.4	361.2	325.0	361.2
47.5°	184.2	218.7	253.2	278.0	299.6	292.7	257.4	222.1	186.5	150.9	186.5
50°	116.4	140.4	164.4	194.8	227.2	220.2	173.6	134.7	118.7	102.7	118.7
52.5°	89.3	101.7	114.0	142.8	177.2	173.9	132.9	100.0	91.2	82.4	91.2
55°	63.5	68.2	72.9	88.9	108.7	107.5	85.4	67.9	64.1	60.3	64.1
57.5°	49.1	51.7	54.4	60.3	67.4	66.7	58.4	51.5	49.1	46.8	49.1
60°	42.3	44.2	46.1	49.0	52.3	51.9	47.6	43.9	41.5	39.2	41.5
62.5°	38.1	39.2	40.4	41.7	43.1	42.5	39.7	37.5	36.6	35.8	36.6
65°	32.8	33.3	33.8	33.9	33.9	33.4	32.5	31.6	31.2	30.7	31.2
67.5°	27.9	28.4	28.9	28.9	28.8	28.6	28.1	27.6	27.1	26.7	27.1
70°	25.4	25.9	26.3	26.1	25.6	25.2	24.7	24.2	23.8	23.3	23.8
72.5°	22.0	22.5	23.0	22.7	22.3	22.0	21.9	21.7	21.2	20.7	21.2
75°	18.0	18.0	18.0	18.0	18.0	17.8	17.3	16.9	16.9	16.9	16.9
77.5°	14.0	14.1	14.2	13.8	13.4	13.1	13.1	13.0	12.7	12.3	12.7
80°	10.6	11.1	11.5	11.3	10.8	10.6	10.6	10.6	10.6	10.6	10.6
82.5°	8.9	9.0	9.1	8.8	8.3	8.0	8.0	8.0	8.0	8.0	8.0
85°	5.3	5.3	5.3	4.9	4.5	4.5	4.9	5.2	4.7	4.2	4.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8
2.5°	5936.7	5922.2	5901.2	5903.2	5928.4	5948.5	5953.0	5957.5	5953.0	5948.5	5928.4
5°	5762.5	5737.1	5700.4	5692.9	5714.6	5731.7	5735.5	5739.3	5735.5	5731.7	5714.6
7.5°	5337.7	5315.6	5283.2	5273.3	5286.1	5294.9	5291.7	5288.5	5291.7	5294.9	5286.1
10°	4979.7	4952.1	4904.6	4890.2	4909.0	4921.0	4912.6	4904.1	4912.6	4921.0	4909.0
12.5°	4451.5	4450.2	4442.6	4445.2	4458.0	4468.9	4474.4	4479.8	4474.4	4468.9	4458.0
15°	3732.1	3724.6	3712.8	3723.8	3757.7	3788.1	3807.8	3827.6	3807.8	3788.1	3757.7
17.5°	3028.9	3031.2	3032.3	3047.8	3077.7	3098.3	3090.6	3083.0	3090.6	3098.3	3077.7
20°	2631.2	2624.4	2615.0	2619.2	2637.1	2649.9	2647.6	2645.2	2647.6	2649.9	2637.1
22.5°	2272.0	2263.7	2249.7	2254.2	2276.9	2293.9	2293.4	2292.9	2293.4	2293.9	2276.9
25°	1783.9	1788.9	1795.9	1806.8	1821.3	1832.6	1834.0	1835.5	1834.0	1832.6	1821.3
27.5°	1477.2	1474.6	1469.9	1473.0	1483.9	1493.5	1499.4	1505.2	1499.4	1493.5	1483.9
30°	1309.4	1308.3	1305.5	1309.7	1321.0	1330.7	1335.4	1340.1	1335.4	1330.7	1321.0
32.5°	1162.3	1164.1	1165.4	1171.9	1183.6	1192.3	1192.1	1191.9	1192.1	1192.3	1183.6
35°	961.1	967.5	974.5	983.2	993.6	1000.6	997.8	995.0	997.8	1000.6	993.6
37.5°	781.3	790.0	800.4	809.9	818.7	824.6	821.9	819.3	821.9	824.6	818.7
40°	667.2	677.1	689.3	698.5	704.6	708.7	706.9	705.0	706.9	708.7	704.6
42.5°	557.1	567.3	578.8	587.6	593.7	596.3	588.4	580.5	588.4	596.3	593.7
45°	397.4	416.0	428.7	431.8	425.2	414.0	389.1	364.1	389.1	414.0	425.2
47.5°	222.1	257.4	292.7	299.6	278.0	253.2	218.7	184.2	218.7	253.2	278.0
50°	134.7	173.6	220.2	227.2	194.8	164.4	140.4	116.4	140.4	164.4	194.8
52.5°	100.0	132.9	173.9	177.2	142.8	114.0	101.7	89.3	101.7	114.0	142.8
55°	67.9	85.4	107.5	108.7	88.9	72.9	68.2	63.5	68.2	72.9	88.9
57.5°	51.5	58.4	66.7	67.4	60.3	54.4	51.7	49.1	51.7	54.4	60.3
60°	43.9	47.6	51.9	52.3	49.0	46.1	44.2	42.3	44.2	46.1	49.0
62.5°	37.5	39.7	42.5	43.1	41.7	40.4	39.2	38.1	39.2	40.4	41.7
65°	31.6	32.5	33.4	33.9	33.9	33.8	33.3	32.8	33.3	33.8	33.9
67.5°	27.6	28.1	28.6	28.8	28.9	28.9	28.4	27.9	28.4	28.9	28.9
70°	24.2	24.7	25.2	25.6	26.1	26.3	25.9	25.4	25.9	26.3	26.1
72.5°	21.7	21.9	22.0	22.3	22.7	23.0	22.5	22.0	22.5	23.0	22.7
75°	16.9	17.3	17.8	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
77.5°	13.0	13.1	13.1	13.4	13.8	14.2	14.1	14.0	14.1	14.2	13.8
80°	10.6	10.6	10.6	10.8	11.3	11.5	11.1	10.6	11.1	11.5	11.3
82.5°	8.0	8.0	8.0	8.3	8.8	9.1	9.0	8.9	9.0	9.1	8.8
85°	5.2	4.9	4.5	4.5	4.9	5.3	5.3	5.3	5.3	5.3	4.9
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8	5966.8
2.5°	5903.2	5901.2	5922.2	5936.7	5931.5	5926.2	5931.5	5936.7	5922.2	5901.2	5903.2
5°	5692.9	5700.4	5737.1	5762.5	5754.1	5745.6	5754.1	5762.5	5737.1	5700.4	5692.9
7.5°	5273.3	5283.2	5315.6	5337.7	5328.7	5319.7	5328.7	5337.7	5315.6	5283.2	5273.3
10°	4890.2	4904.6	4952.1	4979.7	4947.7	4915.7	4947.7	4979.7	4952.1	4904.6	4890.2
12.5°	4445.2	4442.6	4450.2	4451.5	4433.8	4416.1	4433.8	4451.5	4450.2	4442.6	4445.2
15°	3723.8	3712.8	3724.6	3732.1	3726.9	3721.7	3726.9	3732.1	3724.6	3712.8	3723.8
17.5°	3047.8	3032.3	3031.2	3028.9	3023.0	3017.2	3023.0	3028.9	3031.2	3032.3	3047.8
20°	2619.2	2615.0	2624.4	2631.2	2630.3	2629.3	2630.3	2631.2	2624.4	2615.0	2619.2
22.5°	2254.2	2249.7	2263.7	2272.0	2263.5	2255.1	2263.5	2272.0	2263.7	2249.7	2254.2
25°	1806.8	1795.9	1788.9	1783.9	1785.4	1786.8	1785.4	1783.9	1788.9	1795.9	1806.8
27.5°	1473.0	1469.9	1474.6	1477.2	1473.8	1470.3	1473.8	1477.2	1474.6	1469.9	1473.0
30°	1309.7	1305.5	1308.3	1309.4	1305.1	1300.9	1305.1	1309.4	1308.3	1305.5	1309.7
32.5°	1171.9	1165.4	1164.1	1162.3	1159.2	1156.1	1159.2	1162.3	1164.1	1165.4	1171.9
35°	983.2	974.5	967.5	961.1	956.9	952.7	956.9	961.1	967.5	974.5	983.2
37.5°	809.9	800.4	790.0	781.3	777.8	774.2	777.8	781.3	790.0	800.4	809.9
40°	698.5	689.3	677.1	667.2	664.4	661.6	664.4	667.2	677.1	689.3	698.5
42.5°	587.6	578.8	567.3	557.1	550.9	544.7	550.9	557.1	567.3	578.8	587.6
45°	431.8	428.7	416.0	397.4	361.2	325.0	361.2	397.4	416.0	428.7	431.8
47.5°	299.6	292.7	257.4	222.1	186.5	150.9	186.5	222.1	257.4	292.7	299.6
50°	227.2	220.2	173.6	134.7	118.7	102.7	118.7	134.7	173.6	220.2	227.2
52.5°	177.2	173.9	132.9	100.0	91.2	82.4	91.2	100.0	132.9	173.9	177.2
55°	108.7	107.5	85.4	67.9	64.1	60.3	64.1	67.9	85.4	107.5	108.7
57.5°	67.4	66.7	58.4	51.5	49.1	46.8	49.1	51.5	58.4	66.7	67.4
60°	52.3	51.9	47.6	43.9	41.5	39.2	41.5	43.9	47.6	51.9	52.3
62.5°	43.1	42.5	39.7	37.5	36.6	35.8	36.6	37.5	39.7	42.5	43.1
65°	33.9	33.4	32.5	31.6	31.2	30.7	31.2	31.6	32.5	33.4	33.9
67.5°	28.8	28.6	28.1	27.6	27.1	26.7	27.1	27.6	28.1	28.6	28.8
70°	25.6	25.2	24.7	24.2	23.8	23.3	23.8	24.2	24.7	25.2	25.6
72.5°	22.3	22.0	21.9	21.7	21.2	20.7	21.2	21.7	21.9	22.0	22.3
75°	18.0	17.8	17.3	16.9	16.9	16.9	16.9	16.9	17.3	17.8	18.0
77.5°	13.4	13.1	13.1	13.0	12.7	12.3	12.7	13.0	13.1	13.1	13.4
80°	10.8	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.8
82.5°	8.3	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.3
85°	4.5	4.5	4.9	5.2	4.7	4.2	4.7	5.2	4.9	4.5	4.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P1428580

CATALOG NUMBER: SQ2W-WBN-0U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	5966.8	5966.8	5966.8	5966.8
2.5°	5928.4	5948.5	5953.0	5957.5
5°	5714.6	5731.7	5735.5	5739.3
7.5°	5286.1	5294.9	5291.7	5288.5
10°	4909.0	4921.0	4912.6	4904.1
12.5°	4458.0	4468.9	4474.4	4479.8
15°	3757.7	3788.1	3807.8	3827.6
17.5°	3077.7	3098.3	3090.6	3083.0
20°	2637.1	2649.9	2647.6	2645.2
22.5°	2276.9	2293.9	2293.4	2292.9
25°	1821.3	1832.6	1834.0	1835.5
27.5°	1483.9	1493.5	1499.4	1505.2
30°	1321.0	1330.7	1335.4	1340.1
32.5°	1183.6	1192.3	1192.1	1191.9
35°	993.6	1000.6	997.8	995.0
37.5°	818.7	824.6	821.9	819.3
40°	704.6	708.7	706.9	705.0
42.5°	593.7	596.3	588.4	580.5
45°	425.2	414.0	389.1	364.1
47.5°	278.0	253.2	218.7	184.2
50°	194.8	164.4	140.4	116.4
52.5°	142.8	114.0	101.7	89.3
55°	88.9	72.9	68.2	63.5
57.5°	60.3	54.4	51.7	49.1
60°	49.0	46.1	44.2	42.3
62.5°	41.7	40.4	39.2	38.1
65°	33.9	33.8	33.3	32.8
67.5°	28.9	28.9	28.4	27.9
70°	26.1	26.3	25.9	25.4
72.5°	22.7	23.0	22.5	22.0
75°	18.0	18.0	18.0	18.0
77.5°	13.8	14.2	14.1	14.0
80°	11.3	11.5	11.1	10.6
82.5°	8.8	9.1	9.0	8.9
85°	4.9	5.3	5.3	5.3
87.5°	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1428580
 CATALOG NUMBER: SQ2W-WBN-0U-075D-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	6.34	7.40	6.71	7.71	8.03	5.97	7.03	6.33	7.34	7.65
	3H	7.58	8.51	7.96	8.84	9.21	7.18	8.12	7.57	8.45	8.82
	4H	8.11	8.97	8.51	9.32	9.71	7.71	8.57	8.11	8.92	9.31
	6H	8.47	9.26	8.89	9.63	10.03	8.05	8.84	8.47	9.21	9.61
	8H	8.62	9.36	9.06	9.76	10.16	8.19	8.93	8.63	9.33	9.74
	12H	8.72	9.43	9.16	9.81	10.24	8.27	8.97	8.70	9.36	9.79
4H	2H	6.68	7.55	7.09	7.90	8.29	6.37	7.24	6.78	7.59	7.98
	3H	8.19	8.89	8.60	9.30	9.70	7.85	8.55	8.26	8.96	9.36
	4H	8.84	9.46	9.27	9.88	10.33	8.48	9.10	8.92	9.53	9.97
	6H	9.33	9.87	9.80	10.32	10.79	8.94	9.48	9.41	9.93	10.40
	8H	9.54	10.04	10.01	10.49	10.96	9.13	9.63	9.61	10.08	10.55
	12H	9.68	10.12	10.17	10.60	11.08	9.25	9.68	9.74	10.17	10.64
8H	4H	9.00	9.49	9.47	9.95	10.42	8.68	9.18	9.15	9.63	10.10
	6H	9.63	10.03	10.14	10.53	11.02	9.27	9.67	9.78	10.17	10.66
	8H	9.94	10.29	10.47	10.81	11.31	9.55	9.90	10.08	10.42	10.92
	12H	10.18	10.48	10.70	10.98	11.56	9.75	10.06	10.28	10.56	11.14
12H	4H	8.99	9.42	9.48	9.90	10.38	8.68	9.11	9.17	9.60	10.07
	6H	9.65	10.01	10.18	10.53	11.02	9.31	9.66	9.84	10.19	10.68
	8H	10.01	10.32	10.54	10.82	11.40	9.64	9.95	10.16	10.45	11.03