

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: P1427820

Luminaire Tested: SQ2W-PH1-0U-050D-L835-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427820
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PH1-0U-050D-L835-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

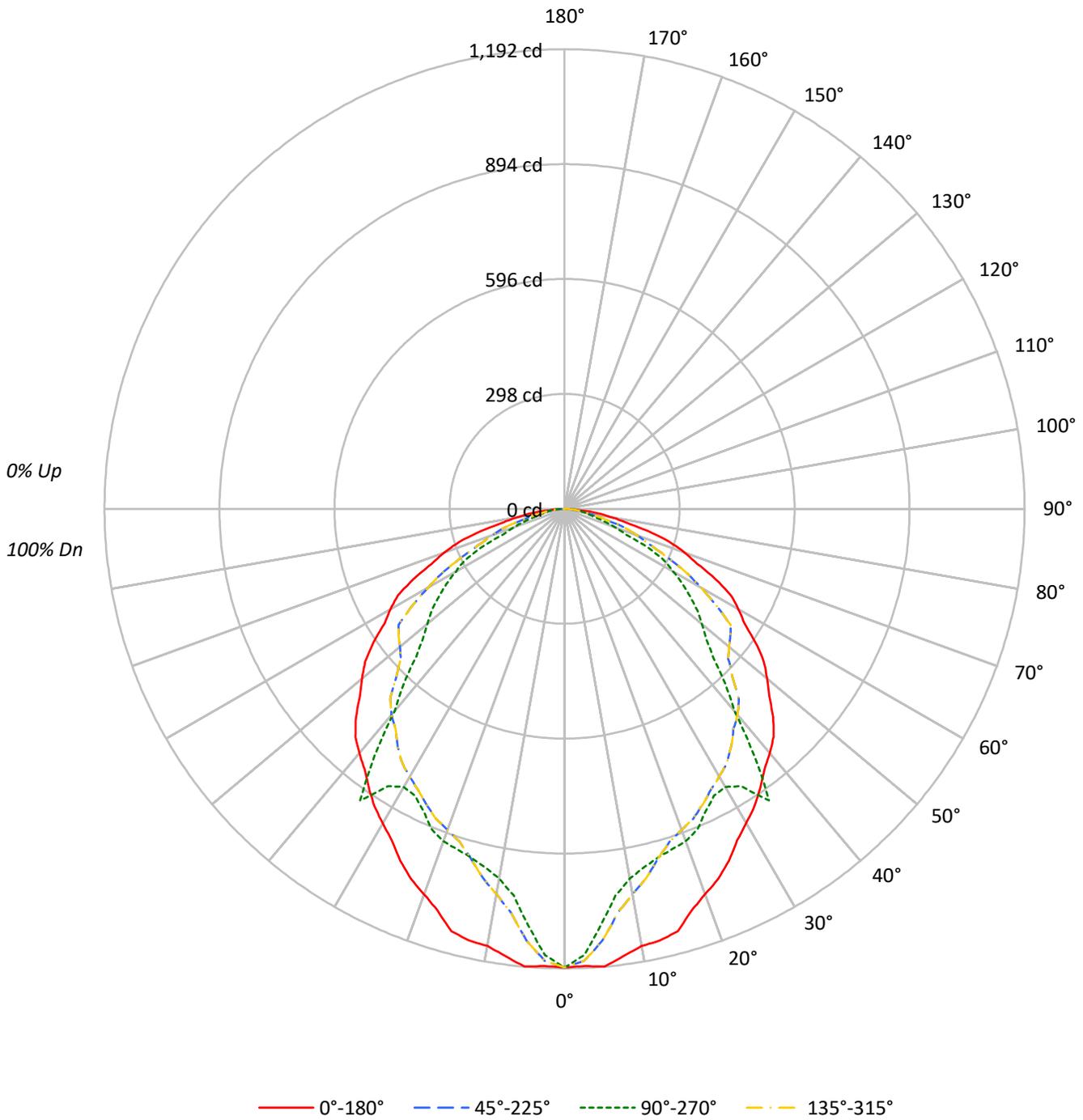
Lumens per Lamp: N/A
Luminaire Lumens: 2629.8 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19204	19204	19204	19204
5°	19314	17552	19314	17552
10°	18869	15955	18869	15955
15°	18953	15644	18953	15644
20°	18278	15769	18278	15769
25°	17943	15403	17943	15403
30°	17555	15528	17555	15528
35°	17420	18200	17420	18200
40°	17437	14431	17437	14431
45°	17442	12428	17442	12428
50°	17198	11655	17198	11655
55°	16979	11181	16979	11181
60°	16811	10488	16811	10488
65°	16515	9123	16515	9123
70°	15597	6519	15597	6519
75°	13905	4941	13905	4941
80°	11362	4630	11362	4630
85°	7132	3149	7132	3149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17442 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	4.0
10°-20°	275.3	10.5
20°-30°	403.6	15.3
30°-40°	488.7	18.6
40°-50°	480.6	18.3
50°-60°	418.0	15.9
60°-70°	290.7	11.1
70°-80°	137.9	5.2
80°-90°	30.4	1.2
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°	783.5	29.8
0°-40°	1272.2	48.4
0°-60°	2170.8	82.5
0°-90°	2629.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1189	1189	1189	1189	1189	
5°	1192	1083	1192	1083	1192	112
15°	1134	936	1134	936	1134	316
25°	1007	865	1007	865	1007	463
35°	884	923	884	923	884	554
45°	764	544	764	544	764	587
55°	603	397	603	397	603	539
65°	432	239	432	239	432	425
75°	223	79	223	79	223	236
85°	38	17	38	17	38	53
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°	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1186.7	1192.3	1197.9	1190.0	1177.5	1168.9	1164.0	1160.2	1159.4	1158.6	1159.4
5°	1191.7	1191.1	1190.6	1167.1	1135.9	1112.6	1097.0	1085.0	1084.0	1083.0	1084.0
7.5°	1169.9	1154.3	1138.7	1107.2	1070.2	1043.2	1026.0	1012.9	1012.1	1011.3	1012.1
10°	1150.9	1127.3	1103.6	1067.9	1028.2	1000.5	984.9	973.2	973.2	973.2	973.2
12.5°	1146.4	1109.1	1071.7	1032.6	992.9	967.2	955.7	947.6	950.0	952.4	950.0
15°	1133.9	1077.6	1021.3	981.5	947.3	928.7	925.7	924.8	930.4	935.9	930.4
17.5°	1092.7	1032.1	971.4	936.5	910.1	900.2	906.6	913.1	919.5	925.9	919.5
20°	1063.8	1003.9	944.1	911.8	888.6	883.1	895.2	905.7	911.8	917.8	911.8
22.5°	1039.3	978.7	918.0	889.4	871.5	869.2	882.5	893.2	896.5	899.7	896.5
25°	1007.2	938.8	870.4	849.5	844.5	847.7	859.3	867.6	866.1	864.6	866.1
27.5°	968.7	897.3	825.9	812.5	818.4	824.9	831.9	837.4	838.3	839.2	838.3
30°	941.6	870.1	798.7	788.0	797.6	805.9	812.9	819.8	826.4	832.9	826.4
32.5°	915.3	841.5	767.6	760.0	774.3	789.9	806.6	822.9	837.8	852.8	837.8
35°	883.8	806.9	729.9	723.9	741.5	764.1	791.8	824.9	874.2	923.4	874.2
37.5°	850.8	768.3	685.8	683.1	706.9	730.8	754.6	776.4	792.1	807.8	792.1
40°	827.3	740.7	654.2	654.1	682.8	712.5	743.1	757.1	720.9	684.7	720.9
42.5°	801.9	715.4	628.9	626.3	651.8	684.5	724.4	739.1	677.9	616.8	677.9
45°	763.9	673.8	583.8	580.5	606.2	624.3	634.9	631.9	588.1	544.3	588.1
47.5°	719.1	633.3	547.5	546.7	574.4	576.4	552.8	530.8	513.7	496.6	513.7
50°	684.7	603.7	522.7	526.2	557.9	554.9	517.2	486.1	475.1	464.0	475.1
52.5°	651.2	574.2	497.3	506.6	544.7	538.7	488.5	449.0	441.6	434.1	441.6
55°	603.2	529.2	455.3	476.4	529.2	521.2	452.3	400.2	398.7	397.2	398.7
57.5°	552.3	482.3	412.4	427.1	469.9	461.5	401.7	357.6	360.2	362.8	360.2
60°	520.6	452.7	384.8	386.7	411.8	403.8	362.5	330.8	327.8	324.8	327.8
62.5°	487.1	422.4	357.7	348.3	357.4	347.9	320.0	298.2	295.2	292.2	295.2
65°	432.3	373.5	314.6	296.9	292.9	279.3	256.1	238.8	238.8	238.8	238.8
67.5°	372.1	320.8	269.5	249.6	240.3	226.8	209.2	193.0	180.9	168.8	180.9
70°	330.4	285.2	239.9	219.2	206.6	190.5	170.9	154.2	146.1	138.1	146.1
72.5°	286.1	247.3	208.4	187.2	171.8	156.1	140.1	125.8	116.5	107.3	116.5
75°	222.9	191.8	160.6	140.0	122.8	107.0	92.4	81.2	80.2	79.2	80.2
77.5°	161.2	138.4	115.7	99.0	84.3	73.3	65.9	60.5	60.6	60.7	60.6
80°	122.2	105.1	88.0	72.4	57.3	49.5	49.0	48.8	49.3	49.8	49.3
82.5°	86.0	73.3	60.7	50.7	41.6	37.5	38.2	38.7	38.8	38.9	38.8
85°	38.5	32.4	26.4	24.1	23.1	21.6	19.6	18.0	17.5	17.0	17.5
87.5°	8.1	7.7	7.3	6.3	5.1	4.5	4.5	4.5	4.5	4.5	4.5
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°	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1160.2	1164.0	1168.9	1177.5	1190.0	1197.9	1192.3	1186.7	1192.3	1197.9	1190.0
5°	1085.0	1097.0	1112.6	1135.9	1167.1	1190.6	1191.1	1191.7	1191.1	1190.6	1167.1
7.5°	1012.9	1026.0	1043.2	1070.2	1107.2	1138.7	1154.3	1169.9	1154.3	1138.7	1107.2
10°	973.2	984.9	1000.5	1028.2	1067.9	1103.6	1127.3	1150.9	1127.3	1103.6	1067.9
12.5°	947.6	955.7	967.2	992.9	1032.6	1071.7	1109.1	1146.4	1109.1	1071.7	1032.6
15°	924.8	925.7	928.7	947.3	981.5	1021.3	1077.6	1133.9	1077.6	1021.3	981.5
17.5°	913.1	906.6	900.2	910.1	936.5	971.4	1032.1	1092.7	1032.1	971.4	936.5
20°	905.7	895.2	883.1	888.6	911.8	944.1	1003.9	1063.8	1003.9	944.1	911.8
22.5°	893.2	882.5	869.2	871.5	889.4	918.0	978.7	1039.3	978.7	918.0	889.4
25°	867.6	859.3	847.7	844.5	849.5	870.4	938.8	1007.2	938.8	870.4	849.5
27.5°	837.4	831.9	824.9	818.4	812.5	825.9	897.3	968.7	897.3	825.9	812.5
30°	819.8	812.9	805.9	797.6	788.0	798.7	870.1	941.6	870.1	798.7	788.0
32.5°	822.9	806.6	789.9	774.3	760.0	767.6	841.5	915.3	841.5	767.6	760.0
35°	824.9	791.8	764.1	741.5	723.9	729.9	806.9	883.8	806.9	729.9	723.9
37.5°	776.4	754.6	730.8	706.9	683.1	685.8	768.3	850.8	768.3	685.8	683.1
40°	757.1	743.1	712.5	682.8	654.1	654.2	740.7	827.3	740.7	654.2	654.1
42.5°	739.1	724.4	684.5	651.8	626.3	628.9	715.4	801.9	715.4	628.9	626.3
45°	631.9	634.9	624.3	606.2	580.5	583.8	673.8	763.9	673.8	583.8	580.5
47.5°	530.8	552.8	576.4	574.4	546.7	547.5	633.3	719.1	633.3	547.5	546.7
50°	486.1	517.2	554.9	557.9	526.2	522.7	603.7	684.7	603.7	522.7	526.2
52.5°	449.0	488.5	538.7	544.7	506.6	497.3	574.2	651.2	574.2	497.3	506.6
55°	400.2	452.3	521.2	529.2	476.4	455.3	529.2	603.2	529.2	455.3	476.4
57.5°	357.6	401.7	461.5	469.9	427.1	412.4	482.3	552.3	482.3	412.4	427.1
60°	330.8	362.5	403.8	411.8	386.7	384.8	452.7	520.6	452.7	384.8	386.7
62.5°	298.2	320.0	347.9	357.4	348.3	357.7	422.4	487.1	422.4	357.7	348.3
65°	238.8	256.1	279.3	292.9	296.9	314.6	373.5	432.3	373.5	314.6	296.9
67.5°	193.0	209.2	226.8	240.3	249.6	269.5	320.8	372.1	320.8	269.5	249.6
70°	154.2	170.9	190.5	206.6	219.2	239.9	285.2	330.4	285.2	239.9	219.2
72.5°	125.8	140.1	156.1	171.8	187.2	208.4	247.3	286.1	247.3	208.4	187.2
75°	81.2	92.4	107.0	122.8	140.0	160.6	191.8	222.9	191.8	160.6	140.0
77.5°	60.5	65.9	73.3	84.3	99.0	115.7	138.4	161.2	138.4	115.7	99.0
80°	48.8	49.0	49.5	57.3	72.4	88.0	105.1	122.2	105.1	88.0	72.4
82.5°	38.7	38.2	37.5	41.6	50.7	60.7	73.3	86.0	73.3	60.7	50.7
85°	18.0	19.6	21.6	23.1	24.1	26.4	32.4	38.5	32.4	26.4	24.1
87.5°	4.5	4.5	4.5	5.1	6.3	7.3	7.7	8.1	7.7	7.3	6.3
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°	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1177.5	1168.9	1164.0	1160.2	1159.4	1158.6	1159.4	1160.2	1164.0	1168.9	1177.5
5°	1135.9	1112.6	1097.0	1085.0	1084.0	1083.0	1084.0	1085.0	1097.0	1112.6	1135.9
7.5°	1070.2	1043.2	1026.0	1012.9	1012.1	1011.3	1012.1	1012.9	1026.0	1043.2	1070.2
10°	1028.2	1000.5	984.9	973.2	973.2	973.2	973.2	973.2	984.9	1000.5	1028.2
12.5°	992.9	967.2	955.7	947.6	950.0	952.4	950.0	947.6	955.7	967.2	992.9
15°	947.3	928.7	925.7	924.8	930.4	935.9	930.4	924.8	925.7	928.7	947.3
17.5°	910.1	900.2	906.6	913.1	919.5	925.9	919.5	913.1	906.6	900.2	910.1
20°	888.6	883.1	895.2	905.7	911.8	917.8	911.8	905.7	895.2	883.1	888.6
22.5°	871.5	869.2	882.5	893.2	896.5	899.7	896.5	893.2	882.5	869.2	871.5
25°	844.5	847.7	859.3	867.6	866.1	864.6	866.1	867.6	859.3	847.7	844.5
27.5°	818.4	824.9	831.9	837.4	838.3	839.2	838.3	837.4	831.9	824.9	818.4
30°	797.6	805.9	812.9	819.8	826.4	832.9	826.4	819.8	812.9	805.9	797.6
32.5°	774.3	789.9	806.6	822.9	837.8	852.8	837.8	822.9	806.6	789.9	774.3
35°	741.5	764.1	791.8	824.9	874.2	923.4	874.2	824.9	791.8	764.1	741.5
37.5°	706.9	730.8	754.6	776.4	792.1	807.8	792.1	776.4	754.6	730.8	706.9
40°	682.8	712.5	743.1	757.1	720.9	684.7	720.9	757.1	743.1	712.5	682.8
42.5°	651.8	684.5	724.4	739.1	677.9	616.8	677.9	739.1	724.4	684.5	651.8
45°	606.2	624.3	634.9	631.9	588.1	544.3	588.1	631.9	634.9	624.3	606.2
47.5°	574.4	576.4	552.8	530.8	513.7	496.6	513.7	530.8	552.8	576.4	574.4
50°	557.9	554.9	517.2	486.1	475.1	464.0	475.1	486.1	517.2	554.9	557.9
52.5°	544.7	538.7	488.5	449.0	441.6	434.1	441.6	449.0	488.5	538.7	544.7
55°	529.2	521.2	452.3	400.2	398.7	397.2	398.7	400.2	452.3	521.2	529.2
57.5°	469.9	461.5	401.7	357.6	360.2	362.8	360.2	357.6	401.7	461.5	469.9
60°	411.8	403.8	362.5	330.8	327.8	324.8	327.8	330.8	362.5	403.8	411.8
62.5°	357.4	347.9	320.0	298.2	295.2	292.2	295.2	298.2	320.0	347.9	357.4
65°	292.9	279.3	256.1	238.8	238.8	238.8	238.8	238.8	256.1	279.3	292.9
67.5°	240.3	226.8	209.2	193.0	180.9	168.8	180.9	193.0	209.2	226.8	240.3
70°	206.6	190.5	170.9	154.2	146.1	138.1	146.1	154.2	170.9	190.5	206.6
72.5°	171.8	156.1	140.1	125.8	116.5	107.3	116.5	125.8	140.1	156.1	171.8
75°	122.8	107.0	92.4	81.2	80.2	79.2	80.2	81.2	92.4	107.0	122.8
77.5°	84.3	73.3	65.9	60.5	60.6	60.7	60.6	60.5	65.9	73.3	84.3
80°	57.3	49.5	49.0	48.8	49.3	49.8	49.3	48.8	49.0	49.5	57.3
82.5°	41.6	37.5	38.2	38.7	38.8	38.9	38.8	38.7	38.2	37.5	41.6
85°	23.1	21.6	19.6	18.0	17.5	17.0	17.5	18.0	19.6	21.6	23.1
87.5°	5.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.1
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: P1427820

CATALOG NUMBER: SQ2W-PH1-0U-050D-L835-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1189.4	1189.4	1189.4	1189.4
2.5°	1190.0	1197.9	1192.3	1186.7
5°	1167.1	1190.6	1191.1	1191.7
7.5°	1107.2	1138.7	1154.3	1169.9
10°	1067.9	1103.6	1127.3	1150.9
12.5°	1032.6	1071.7	1109.1	1146.4
15°	981.5	1021.3	1077.6	1133.9
17.5°	936.5	971.4	1032.1	1092.7
20°	911.8	944.1	1003.9	1063.8
22.5°	889.4	918.0	978.7	1039.3
25°	849.5	870.4	938.8	1007.2
27.5°	812.5	825.9	897.3	968.7
30°	788.0	798.7	870.1	941.6
32.5°	760.0	767.6	841.5	915.3
35°	723.9	729.9	806.9	883.8
37.5°	683.1	685.8	768.3	850.8
40°	654.1	654.2	740.7	827.3
42.5°	626.3	628.9	715.4	801.9
45°	580.5	583.8	673.8	763.9
47.5°	546.7	547.5	633.3	719.1
50°	526.2	522.7	603.7	684.7
52.5°	506.6	497.3	574.2	651.2
55°	476.4	455.3	529.2	603.2
57.5°	427.1	412.4	482.3	552.3
60°	386.7	384.8	452.7	520.6
62.5°	348.3	357.7	422.4	487.1
65°	296.9	314.6	373.5	432.3
67.5°	249.6	269.5	320.8	372.1
70°	219.2	239.9	285.2	330.4
72.5°	187.2	208.4	247.3	286.1
75°	140.0	160.6	191.8	222.9
77.5°	99.0	115.7	138.4	161.2
80°	72.4	88.0	105.1	122.2
82.5°	50.7	60.7	73.3	86.0
85°	24.1	26.4	32.4	38.5
87.5°	6.3	7.3	7.7	8.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427820
 CATALOG NUMBER: SQ2W-PH1-0U-050D-L835-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	20.99	22.58	21.35	22.89	23.21	19.82	21.41	20.18	21.72	22.03
	3H	23.21	24.65	23.59	24.97	25.33	20.92	22.35	21.30	22.68	23.04
	4H	24.06	25.41	24.46	25.75	26.13	21.20	22.54	21.59	22.89	23.26
	6H	24.56	25.81	24.97	26.17	26.56	21.37	22.62	21.78	22.98	23.37
	8H	24.74	25.92	25.16	26.31	26.71	21.45	22.64	21.88	23.03	23.43
	12H	24.82	25.95	25.25	26.33	26.76	21.49	22.62	21.92	23.00	23.43
4H	2H	21.51	22.85	21.91	23.20	23.58	20.59	21.93	20.98	22.28	22.65
	3H	23.82	24.94	24.23	25.34	25.74	21.88	23.00	22.29	23.40	23.80
	4H	24.73	25.74	25.16	26.15	26.59	22.20	23.21	22.63	23.62	24.06
	6H	25.33	26.20	25.78	26.65	27.10	22.44	23.32	22.89	23.76	24.22
	8H	25.54	26.36	26.01	26.81	27.27	22.54	23.36	23.01	23.81	24.27
	12H	25.66	26.40	26.14	26.87	27.34	22.60	23.34	23.08	23.81	24.28
8H	4H	24.81	25.63	25.27	26.07	26.53	22.48	23.31	22.95	23.75	24.21
	6H	25.46	26.14	25.96	26.63	27.11	22.78	23.46	23.28	23.95	24.43
	8H	25.73	26.34	26.24	26.85	27.34	22.93	23.54	23.45	24.05	24.54
	12H	25.90	26.43	26.40	26.92	27.49	23.03	23.57	23.54	24.06	24.62
12H	4H	24.79	25.53	25.27	26.00	26.47	22.52	23.25	23.00	23.73	24.20
	6H	25.45	26.05	25.96	26.56	27.05	22.82	23.43	23.33	23.94	24.43
	8H	25.75	26.29	26.26	26.78	27.34	23.02	23.56	23.53	24.05	24.61