

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: P1427819

Luminaire Tested: SQ2W-PH1-0U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427819
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-L830-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

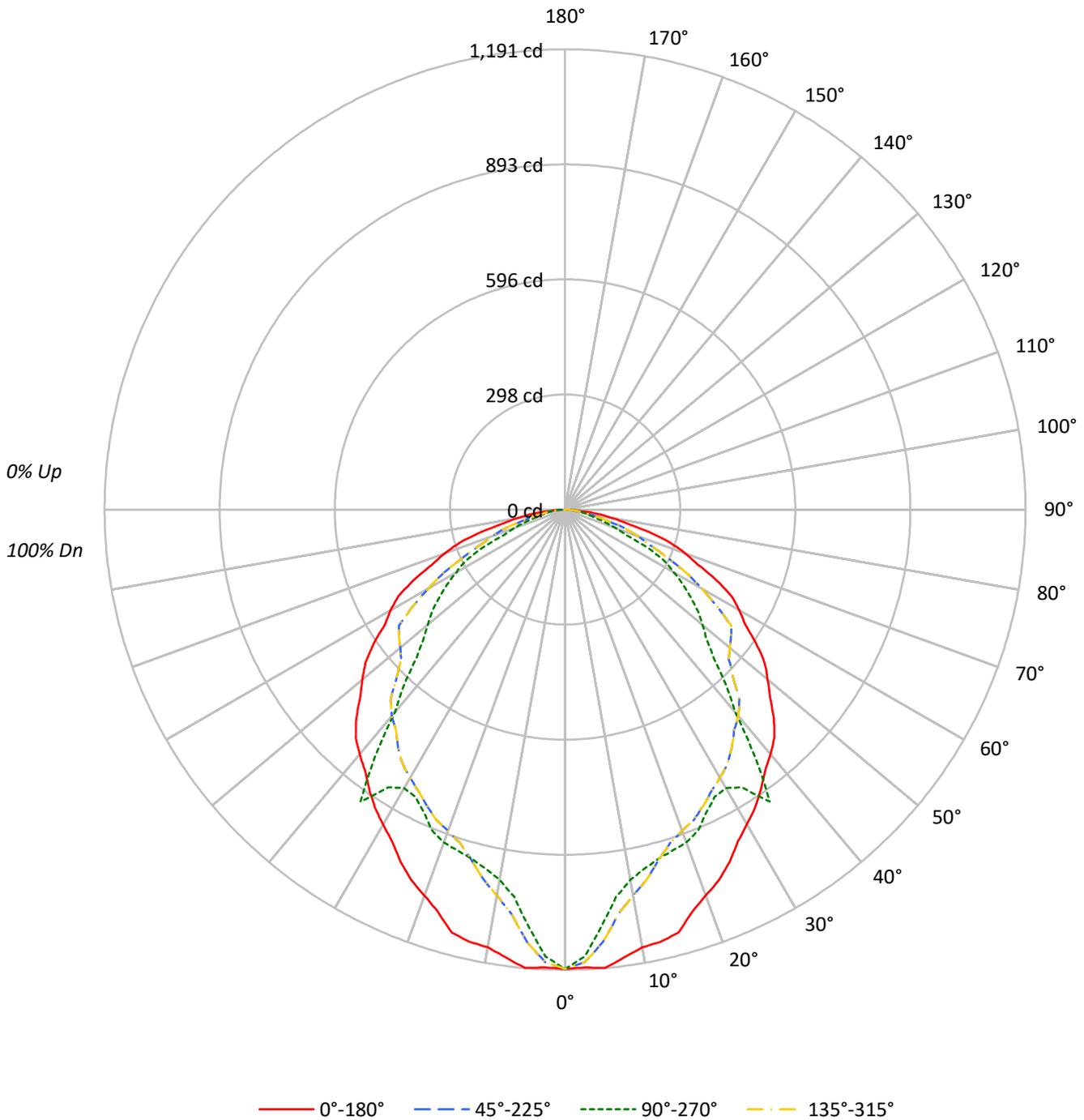
Lumens per Lamp: N/A
Luminaire Lumens: 2627.5 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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°	19186	19186	19186	19186
5°	19296	17536	19296	17536
10°	18852	15942	18852	15942
15°	18937	15629	18937	15629
20°	18261	15756	18261	15756
25°	17927	15388	17927	15388
30°	17538	15515	17538	15515
35°	17404	18185	17404	18185
40°	17420	14416	17420	14416
45°	17426	12417	17426	12417
50°	17181	11645	17181	11645
55°	16963	11172	16963	11172
60°	16795	10478	16795	10478
65°	16500	9115	16500	9115
70°	15588	6510	15588	6510
75°	13892	4934	13892	4934
80°	11353	4621	11353	4621
85°	7114	3149	7114	3149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17426 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	4.0
10°-20°	275.0	10.5
20°-30°	403.2	15.3
30°-40°	488.3	18.6
40°-50°	480.1	18.3
50°-60°	417.7	15.9
60°-70°	290.5	11.1
70°-80°	137.8	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°	782.8	29.8
0°-40°	1271.1	48.4
0°-60°	2168.9	82.5
0°-90°	2627.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1188	1188	1188	1188	1188	
5°	1191	1082	1191	1082	1191	112
15°	1133	935	1133	935	1133	316
25°	1006	864	1006	864	1006	463
35°	883	923	883	923	883	553
45°	763	544	763	544	763	587
55°	603	397	603	397	603	538
65°	432	239	432	239	432	424
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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1185.6	1191.2	1196.9	1188.9	1176.5	1167.8	1163.0	1159.2	1158.4	1157.6	1158.4
5°	1190.6	1190.1	1189.6	1166.1	1134.9	1111.6	1096.0	1084.0	1083.0	1082.0	1083.0
7.5°	1168.9	1153.3	1137.7	1106.2	1069.3	1042.2	1025.0	1012.0	1011.2	1010.4	1011.2
10°	1149.9	1126.3	1102.6	1067.0	1027.3	999.6	984.0	972.4	972.4	972.4	972.4
12.5°	1145.4	1108.1	1070.8	1031.7	992.0	966.4	954.8	946.7	949.1	951.6	949.1
15°	1132.9	1076.6	1020.4	980.7	946.5	927.9	924.9	924.0	929.5	935.0	929.5
17.5°	1091.8	1031.2	970.6	935.7	909.3	899.4	905.8	912.2	918.7	925.1	918.7
20°	1062.8	1003.0	943.2	910.9	887.8	882.3	894.3	904.9	910.9	917.0	910.9
22.5°	1038.4	977.8	917.2	888.6	870.7	868.4	881.7	892.4	895.7	898.9	895.7
25°	1006.3	937.9	869.6	848.7	843.7	847.0	858.5	866.8	865.3	863.8	865.3
27.5°	967.8	896.5	825.1	811.7	817.7	824.1	831.2	836.7	837.6	838.5	837.6
30°	940.7	869.3	798.0	787.3	796.9	805.1	812.2	819.1	825.6	832.2	825.6
32.5°	914.5	840.7	766.9	759.3	773.6	789.2	805.9	822.1	837.1	852.1	837.1
35°	883.0	806.2	729.3	723.2	740.8	763.4	791.1	824.1	873.4	922.6	873.4
37.5°	850.0	767.6	685.2	682.5	706.3	730.1	753.9	775.7	791.4	807.1	791.4
40°	826.5	740.1	653.6	653.5	682.2	711.8	742.5	756.4	720.2	684.0	720.2
42.5°	801.2	714.7	628.3	625.8	651.2	683.9	723.8	738.4	677.3	616.2	677.3
45°	763.2	673.2	583.3	580.0	605.7	623.7	634.3	631.3	587.6	543.8	587.6
47.5°	718.4	632.7	547.0	546.3	573.9	575.9	552.3	530.3	513.2	496.1	513.2
50°	684.0	603.1	522.2	525.8	557.4	554.4	516.7	485.7	474.6	463.6	474.6
52.5°	650.6	573.7	496.8	506.2	544.2	538.2	488.1	448.6	441.2	433.7	441.2
55°	602.6	528.8	454.9	476.0	528.8	520.7	451.9	399.9	398.4	396.9	398.4
57.5°	551.8	481.9	412.1	426.7	469.5	461.1	401.4	357.3	359.9	362.5	359.9
60°	520.1	452.3	384.4	386.3	411.4	403.4	362.2	330.5	327.5	324.5	327.5
62.5°	486.6	422.0	357.4	348.0	357.1	347.6	319.7	298.0	294.9	291.9	294.9
65°	431.9	373.1	314.3	296.6	292.6	279.0	255.9	238.6	238.6	238.6	238.6
67.5°	371.8	320.5	269.2	249.4	240.1	226.6	209.0	192.8	180.8	168.7	180.8
70°	330.2	284.9	239.7	219.0	206.4	190.3	170.7	154.0	146.0	137.9	146.0
72.5°	285.8	247.0	208.2	187.0	171.6	156.0	140.0	125.7	116.4	107.2	116.4
75°	222.7	191.6	160.4	139.8	122.7	106.9	92.3	81.2	80.2	79.1	80.2
77.5°	161.0	138.3	115.6	98.9	84.2	73.2	65.9	60.4	60.5	60.6	60.5
80°	122.1	105.0	87.9	72.4	57.3	49.5	49.0	48.7	49.2	49.7	49.2
82.5°	85.9	73.3	60.6	50.7	41.6	37.4	38.1	38.7	38.8	38.9	38.8
85°	38.4	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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1159.2	1163.0	1167.8	1176.5	1188.9	1196.9	1191.2	1185.6	1191.2	1196.9	1188.9
5°	1084.0	1096.0	1111.6	1134.9	1166.1	1189.6	1190.1	1190.6	1190.1	1189.6	1166.1
7.5°	1012.0	1025.0	1042.2	1069.3	1106.2	1137.7	1153.3	1168.9	1153.3	1137.7	1106.2
10°	972.4	984.0	999.6	1027.3	1067.0	1102.6	1126.3	1149.9	1126.3	1102.6	1067.0
12.5°	946.7	954.8	966.4	992.0	1031.7	1070.8	1108.1	1145.4	1108.1	1070.8	1031.7
15°	924.0	924.9	927.9	946.5	980.7	1020.4	1076.6	1132.9	1076.6	1020.4	980.7
17.5°	912.2	905.8	899.4	909.3	935.7	970.6	1031.2	1091.8	1031.2	970.6	935.7
20°	904.9	894.3	882.3	887.8	910.9	943.2	1003.0	1062.8	1003.0	943.2	910.9
22.5°	892.4	881.7	868.4	870.7	888.6	917.2	977.8	1038.4	977.8	917.2	888.6
25°	866.8	858.5	847.0	843.7	848.7	869.6	937.9	1006.3	937.9	869.6	848.7
27.5°	836.7	831.2	824.1	817.7	811.7	825.1	896.5	967.8	896.5	825.1	811.7
30°	819.1	812.2	805.1	796.9	787.3	798.0	869.3	940.7	869.3	798.0	787.3
32.5°	822.1	805.9	789.2	773.6	759.3	766.9	840.7	914.5	840.7	766.9	759.3
35°	824.1	791.1	763.4	740.8	723.2	729.3	806.2	883.0	806.2	729.3	723.2
37.5°	775.7	753.9	730.1	706.3	682.5	685.2	767.6	850.0	767.6	685.2	682.5
40°	756.4	742.5	711.8	682.2	653.5	653.6	740.1	826.5	740.1	653.6	653.5
42.5°	738.4	723.8	683.9	651.2	625.8	628.3	714.7	801.2	714.7	628.3	625.8
45°	631.3	634.3	623.7	605.7	580.0	583.3	673.2	763.2	673.2	583.3	580.0
47.5°	530.3	552.3	575.9	573.9	546.3	547.0	632.7	718.4	632.7	547.0	546.3
50°	485.7	516.7	554.4	557.4	525.8	522.2	603.1	684.0	603.1	522.2	525.8
52.5°	448.6	488.1	538.2	544.2	506.2	496.8	573.7	650.6	573.7	496.8	506.2
55°	399.9	451.9	520.7	528.8	476.0	454.9	528.8	602.6	528.8	454.9	476.0
57.5°	357.3	401.4	461.1	469.5	426.7	412.1	481.9	551.8	481.9	412.1	426.7
60°	330.5	362.2	403.4	411.4	386.3	384.4	452.3	520.1	452.3	384.4	386.3
62.5°	298.0	319.7	347.6	357.1	348.0	357.4	422.0	486.6	422.0	357.4	348.0
65°	238.6	255.9	279.0	292.6	296.6	314.3	373.1	431.9	373.1	314.3	296.6
67.5°	192.8	209.0	226.6	240.1	249.4	269.2	320.5	371.8	320.5	269.2	249.4
70°	154.0	170.7	190.3	206.4	219.0	239.7	284.9	330.2	284.9	239.7	219.0
72.5°	125.7	140.0	156.0	171.6	187.0	208.2	247.0	285.8	247.0	208.2	187.0
75°	81.2	92.3	106.9	122.7	139.8	160.4	191.6	222.7	191.6	160.4	139.8
77.5°	60.4	65.9	73.2	84.2	98.9	115.6	138.3	161.0	138.3	115.6	98.9
80°	48.7	49.0	49.5	57.3	72.4	87.9	105.0	122.1	105.0	87.9	72.4
82.5°	38.7	38.1	37.4	41.6	50.7	60.6	73.3	85.9	73.3	60.6	50.7
85°	18.0	19.6	21.6	23.1	24.1	26.4	32.4	38.4	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°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1176.5	1167.8	1163.0	1159.2	1158.4	1157.6	1158.4	1159.2	1163.0	1167.8	1176.5
5°	1134.9	1111.6	1096.0	1084.0	1083.0	1082.0	1083.0	1084.0	1096.0	1111.6	1134.9
7.5°	1069.3	1042.2	1025.0	1012.0	1011.2	1010.4	1011.2	1012.0	1025.0	1042.2	1069.3
10°	1027.3	999.6	984.0	972.4	972.4	972.4	972.4	972.4	984.0	999.6	1027.3
12.5°	992.0	966.4	954.8	946.7	949.1	951.6	949.1	946.7	954.8	966.4	992.0
15°	946.5	927.9	924.9	924.0	929.5	935.0	929.5	924.0	924.9	927.9	946.5
17.5°	909.3	899.4	905.8	912.2	918.7	925.1	918.7	912.2	905.8	899.4	909.3
20°	887.8	882.3	894.3	904.9	910.9	917.0	910.9	904.9	894.3	882.3	887.8
22.5°	870.7	868.4	881.7	892.4	895.7	898.9	895.7	892.4	881.7	868.4	870.7
25°	843.7	847.0	858.5	866.8	865.3	863.8	865.3	866.8	858.5	847.0	843.7
27.5°	817.7	824.1	831.2	836.7	837.6	838.5	837.6	836.7	831.2	824.1	817.7
30°	796.9	805.1	812.2	819.1	825.6	832.2	825.6	819.1	812.2	805.1	796.9
32.5°	773.6	789.2	805.9	822.1	837.1	852.1	837.1	822.1	805.9	789.2	773.6
35°	740.8	763.4	791.1	824.1	873.4	922.6	873.4	824.1	791.1	763.4	740.8
37.5°	706.3	730.1	753.9	775.7	791.4	807.1	791.4	775.7	753.9	730.1	706.3
40°	682.2	711.8	742.5	756.4	720.2	684.0	720.2	756.4	742.5	711.8	682.2
42.5°	651.2	683.9	723.8	738.4	677.3	616.2	677.3	738.4	723.8	683.9	651.2
45°	605.7	623.7	634.3	631.3	587.6	543.8	587.6	631.3	634.3	623.7	605.7
47.5°	573.9	575.9	552.3	530.3	513.2	496.1	513.2	530.3	552.3	575.9	573.9
50°	557.4	554.4	516.7	485.7	474.6	463.6	474.6	485.7	516.7	554.4	557.4
52.5°	544.2	538.2	488.1	448.6	441.2	433.7	441.2	448.6	488.1	538.2	544.2
55°	528.8	520.7	451.9	399.9	398.4	396.9	398.4	399.9	451.9	520.7	528.8
57.5°	469.5	461.1	401.4	357.3	359.9	362.5	359.9	357.3	401.4	461.1	469.5
60°	411.4	403.4	362.2	330.5	327.5	324.5	327.5	330.5	362.2	403.4	411.4
62.5°	357.1	347.6	319.7	298.0	294.9	291.9	294.9	298.0	319.7	347.6	357.1
65°	292.6	279.0	255.9	238.6	238.6	238.6	238.6	238.6	255.9	279.0	292.6
67.5°	240.1	226.6	209.0	192.8	180.8	168.7	180.8	192.8	209.0	226.6	240.1
70°	206.4	190.3	170.7	154.0	146.0	137.9	146.0	154.0	170.7	190.3	206.4
72.5°	171.6	156.0	140.0	125.7	116.4	107.2	116.4	125.7	140.0	156.0	171.6
75°	122.7	106.9	92.3	81.2	80.2	79.1	80.2	81.2	92.3	106.9	122.7
77.5°	84.2	73.2	65.9	60.4	60.5	60.6	60.5	60.4	65.9	73.2	84.2
80°	57.3	49.5	49.0	48.7	49.2	49.7	49.2	48.7	49.0	49.5	57.3
82.5°	41.6	37.4	38.1	38.7	38.8	38.9	38.8	38.7	38.1	37.4	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: P1427819

CATALOG NUMBER: SQ2W-PH1-0U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1188.3	1188.3	1188.3	1188.3
2.5°	1188.9	1196.9	1191.2	1185.6
5°	1166.1	1189.6	1190.1	1190.6
7.5°	1106.2	1137.7	1153.3	1168.9
10°	1067.0	1102.6	1126.3	1149.9
12.5°	1031.7	1070.8	1108.1	1145.4
15°	980.7	1020.4	1076.6	1132.9
17.5°	935.7	970.6	1031.2	1091.8
20°	910.9	943.2	1003.0	1062.8
22.5°	888.6	917.2	977.8	1038.4
25°	848.7	869.6	937.9	1006.3
27.5°	811.7	825.1	896.5	967.8
30°	787.3	798.0	869.3	940.7
32.5°	759.3	766.9	840.7	914.5
35°	723.2	729.3	806.2	883.0
37.5°	682.5	685.2	767.6	850.0
40°	653.5	653.6	740.1	826.5
42.5°	625.8	628.3	714.7	801.2
45°	580.0	583.3	673.2	763.2
47.5°	546.3	547.0	632.7	718.4
50°	525.8	522.2	603.1	684.0
52.5°	506.2	496.8	573.7	650.6
55°	476.0	454.9	528.8	602.6
57.5°	426.7	412.1	481.9	551.8
60°	386.3	384.4	452.3	520.1
62.5°	348.0	357.4	422.0	486.6
65°	296.6	314.3	373.1	431.9
67.5°	249.4	269.2	320.5	371.8
70°	219.0	239.7	284.9	330.2
72.5°	187.0	208.2	247.0	285.8
75°	139.8	160.4	191.6	222.7
77.5°	98.9	115.6	138.3	161.0
80°	72.4	87.9	105.0	122.1
82.5°	50.7	60.6	73.3	85.9
85°	24.1	26.4	32.4	38.4
87.5°	6.3	7.3	7.7	8.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1427819
 CATALOG NUMBER: SQ2W-PH1-0U-050D-L830-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	23.20	19.81	21.40	20.18	21.72	22.03
	3H	23.21	24.64	23.59	24.97	25.33	20.92	22.35	21.29	22.67	23.04
	4H	24.06	25.40	24.46	25.75	26.13	21.19	22.54	21.59	22.89	23.26
	6H	24.56	25.80	24.97	26.17	26.56	21.37	22.61	21.78	22.98	23.37
	8H	24.73	25.92	25.16	26.31	26.71	21.45	22.63	21.87	23.02	23.42
	12H	24.81	25.95	25.24	26.33	26.76	21.48	22.62	21.91	23.00	23.43
4H	2H	21.50	22.85	21.90	23.20	23.57	20.58	21.93	20.98	22.27	22.65
	3H	23.82	24.94	24.23	25.34	25.74	21.88	23.00	22.29	23.39	23.79
	4H	24.72	25.73	25.16	26.15	26.58	22.20	23.21	22.63	23.62	24.06
	6H	25.32	26.20	25.78	26.64	27.10	22.44	23.31	22.89	23.76	24.21
	8H	25.54	26.36	26.00	26.80	27.27	22.54	23.36	23.00	23.80	24.27
	12H	25.66	26.39	26.14	26.87	27.34	22.60	23.33	23.08	23.81	24.28
8H	4H	24.80	25.62	25.26	26.07	26.53	22.48	23.30	22.94	23.75	24.21
	6H	25.46	26.14	25.96	26.63	27.10	22.78	23.46	23.27	23.95	24.42
	8H	25.73	26.34	26.24	26.85	27.33	22.93	23.54	23.44	24.05	24.53
	12H	25.89	26.43	26.40	26.92	27.48	23.03	23.57	23.54	24.06	24.62
12H	4H	24.79	25.52	25.27	26.00	26.47	22.51	23.25	22.99	23.72	24.19
	6H	25.44	26.05	25.95	26.56	27.05	22.82	23.43	23.33	23.94	24.42
	8H	25.75	26.28	26.26	26.78	27.34	23.02	23.55	23.52	24.04	24.61