

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: P1435889

Luminaire Tested: SQ2W-FB-0U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435889
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FB-0U-075D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT N/A - DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

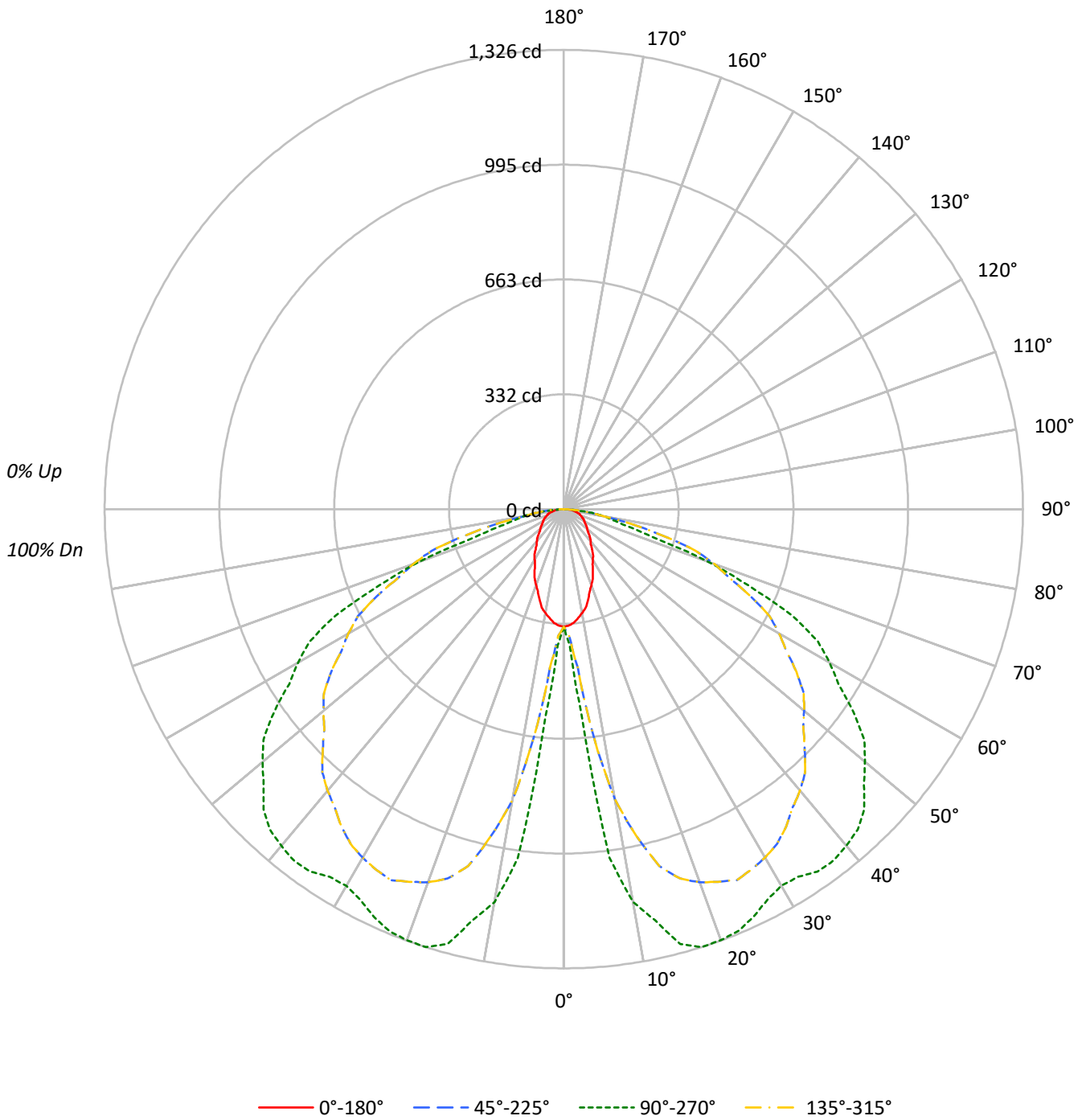
Lumens per Lamp: N/A
Luminaire Lumens: 3350.7 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69				
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57				
4	81	69	60	53	79	67	59	52	65	58	52	63	56	51	60	55	50	48				
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				
6	68	54	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35				
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31				
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27				
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24				
10	51	37	29	23	49	37	29	23	36	28	23	35	28	23	34	28	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5478	5478	5478	5478
5°	5340	9702	5340	9702
10°	5000	18878	5000	18878
15°	4526	21728	4526	21728
20°	4007	22755	4007	22755
25°	3545	23129	3545	23129
30°	3132	23414	3132	23414
35°	2797	25172	2797	25172
40°	2544	26746	2544	26746
45°	2347	28005	2347	28005
50°	2213	28514	2213	28514
55°	2159	28740	2159	28740
60°	2212	28600	2212	28600
65°	2304	27789	2304	27789
70°	2389	21021	2389	21021
75°	2645	11597	2645	11597
80°	2734	10767	2734	10767
85°	2723	4539	2723	4539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 29002 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.7
10°-20°	259.3	7.7
20°-30°	456.4	13.6
30°-40°	590.8	17.6
40°-50°	651.5	19.4
50°-60°	608.1	18.1
60°-70°	469.8	14.0
70°-80°	216.6	6.5
80°-90°	41.4	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°	772.6	23.1
0°-40°	1363.3	40.7
0°-60°	2622.9	78.3
0°-90°	3350.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	339	339	339	339	339	
5°	330	599	330	599	330	31
15°	271	1300	271	1300	271	75
25°	199	1298	199	1298	199	91
35°	142	1277	142	1277	142	89
45°	103	1226	103	1226	103	80
55°	77	1021	77	1021	77	69
65°	60	727	60	727	60	59
75°	42	186	42	186	42	44
85°	15	24	15	24	15	16
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°	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3
2.5°	336.6	343.0	349.4	356.2	363.2	370.7	378.8	385.8	389.3	392.8	389.3
5°	329.5	351.2	373.0	404.5	439.3	478.8	523.0	560.9	579.7	598.6	579.7
7.5°	316.7	361.0	405.2	498.9	609.1	723.5	842.1	940.4	978.1	1015.8	978.1
10°	305.0	366.6	428.2	587.2	778.6	925.7	1028.6	1110.9	1131.2	1151.5	1131.2
12.5°	292.0	375.6	459.3	655.5	889.2	1042.1	1114.3	1173.7	1194.6	1215.5	1194.6
15°	270.8	390.4	510.0	731.8	987.7	1145.0	1203.7	1253.5	1276.7	1299.9	1276.7
17.5°	248.9	408.1	567.3	793.6	1042.2	1195.6	1253.7	1300.5	1313.1	1325.7	1313.1
20°	233.2	420.3	607.3	834.0	1074.0	1218.9	1269.0	1308.5	1316.4	1324.4	1316.4
22.5°	218.9	427.9	637.0	864.0	1097.0	1232.4	1270.3	1300.8	1309.3	1317.9	1309.3
25°	199.0	434.6	670.2	896.5	1119.8	1243.4	1267.3	1286.7	1292.5	1298.3	1292.5
27.5°	179.7	428.7	677.6	901.1	1116.1	1231.4	1247.1	1260.3	1265.9	1271.6	1265.9
30°	168.0	421.0	674.0	895.4	1106.4	1217.7	1229.3	1240.0	1247.9	1255.9	1247.9
32.5°	157.6	411.7	665.9	884.6	1091.5	1200.4	1211.4	1224.0	1241.3	1258.5	1241.3
35°	141.9	392.0	642.1	858.5	1063.6	1174.9	1192.3	1213.3	1245.2	1277.1	1245.2
37.5°	128.5	366.7	604.9	819.1	1025.3	1146.5	1182.9	1217.9	1248.7	1279.4	1248.7
40°	120.7	349.0	577.4	790.0	997.3	1125.2	1173.8	1216.8	1242.9	1269.0	1242.9
42.5°	112.9	329.0	545.2	756.0	965.1	1098.0	1154.7	1203.7	1229.8	1255.9	1229.8
45°	102.8	297.0	491.3	700.3	914.1	1054.4	1121.1	1177.2	1201.9	1226.5	1201.9
47.5°	93.3	262.1	430.8	640.7	864.2	1011.4	1082.1	1139.7	1157.7	1175.7	1157.7
50°	88.1	238.9	389.6	600.2	830.7	980.8	1050.4	1106.2	1120.7	1135.2	1120.7
52.5°	82.9	216.2	349.6	560.6	797.5	948.8	1014.3	1066.8	1080.1	1093.5	1080.1
55°	76.7	185.4	294.1	502.9	745.0	894.7	952.0	997.8	1009.4	1021.0	1009.4
57.5°	71.1	158.8	246.5	448.8	689.1	833.8	882.6	921.6	931.0	940.5	931.0
60°	68.5	144.6	220.7	414.8	648.2	787.1	831.3	866.8	876.2	885.7	876.2
62.5°	64.6	130.8	197.1	380.9	603.9	735.7	776.5	809.3	818.1	826.9	818.1
65°	60.3	114.0	167.6	333.3	536.3	654.8	688.8	715.8	721.6	727.4	721.6
67.5°	54.5	100.0	145.5	289.7	466.7	565.8	587.0	600.1	589.2	578.4	589.2
70°	50.6	92.6	134.7	263.1	420.4	502.7	510.0	507.6	476.4	445.3	476.4
72.5°	48.0	85.4	122.8	234.0	369.8	429.8	413.8	387.1	328.1	269.1	328.1
75°	42.4	72.9	103.3	187.0	288.5	304.5	234.9	183.0	184.5	185.9	184.5
77.5°	34.6	57.3	80.1	131.6	192.6	204.7	167.9	140.6	141.9	143.2	141.9
80°	29.4	47.5	65.6	85.9	106.9	116.7	115.3	114.4	115.1	115.8	115.1
82.5°	24.1	37.6	51.1	63.3	75.0	81.6	83.1	83.9	82.9	81.9	82.9
85°	14.7	22.7	30.6	35.3	39.0	37.9	32.1	27.4	25.9	24.5	25.9
87.5°	5.2	8.1	11.0	10.0	7.7	6.5	6.5	6.5	6.5	6.5	6.5
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°	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3
2.5°	385.8	378.8	370.7	363.2	356.2	349.4	343.0	336.6	343.0	349.4	356.2
5°	560.9	523.0	478.8	439.3	404.5	373.0	351.2	329.5	351.2	373.0	404.5
7.5°	940.4	842.1	723.5	609.1	498.9	405.2	361.0	316.7	361.0	405.2	498.9
10°	1110.9	1028.6	925.7	778.6	587.2	428.2	366.6	305.0	366.6	428.2	587.2
12.5°	1173.7	1114.3	1042.1	889.2	655.5	459.3	375.6	292.0	375.6	459.3	655.5
15°	1253.5	1203.7	1145.0	987.7	731.8	510.0	390.4	270.8	390.4	510.0	731.8
17.5°	1300.5	1253.7	1195.6	1042.2	793.6	567.3	408.1	248.9	408.1	567.3	793.6
20°	1308.5	1269.0	1218.9	1074.0	834.0	607.3	420.3	233.2	420.3	607.3	834.0
22.5°	1300.8	1270.3	1232.4	1097.0	864.0	637.0	427.9	218.9	427.9	637.0	864.0
25°	1286.7	1267.3	1243.4	1119.8	896.5	670.2	434.6	199.0	434.6	670.2	896.5
27.5°	1260.3	1247.1	1231.4	1116.1	901.1	677.6	428.7	179.7	428.7	677.6	901.1
30°	1240.0	1229.3	1217.7	1106.4	895.4	674.0	421.0	168.0	421.0	674.0	895.4
32.5°	1224.0	1211.4	1200.4	1091.5	884.6	665.9	411.7	157.6	411.7	665.9	884.6
35°	1213.3	1192.3	1174.9	1063.6	858.5	642.1	392.0	141.9	392.0	642.1	858.5
37.5°	1217.9	1182.9	1146.5	1025.3	819.1	604.9	366.7	128.5	366.7	604.9	819.1
40°	1216.8	1173.8	1125.2	997.3	790.0	577.4	349.0	120.7	349.0	577.4	790.0
42.5°	1203.7	1154.7	1098.0	965.1	756.0	545.2	329.0	112.9	329.0	545.2	756.0
45°	1177.2	1121.1	1054.4	914.1	700.3	491.3	297.0	102.8	297.0	491.3	700.3
47.5°	1139.7	1082.1	1011.4	864.2	640.7	430.8	262.1	93.3	262.1	430.8	640.7
50°	1106.2	1050.4	980.8	830.7	600.2	389.6	238.9	88.1	238.9	389.6	600.2
52.5°	1066.8	1014.3	948.8	797.5	560.6	349.6	216.2	82.9	216.2	349.6	560.6
55°	997.8	952.0	894.7	745.0	502.9	294.1	185.4	76.7	185.4	294.1	502.9
57.5°	921.6	882.6	833.8	689.1	448.8	246.5	158.8	71.1	158.8	246.5	448.8
60°	866.8	831.3	787.1	648.2	414.8	220.7	144.6	68.5	144.6	220.7	414.8
62.5°	809.3	776.5	735.7	603.9	380.9	197.1	130.8	64.6	130.8	197.1	380.9
65°	715.8	688.8	654.8	536.3	333.3	167.6	114.0	60.3	114.0	167.6	333.3
67.5°	600.1	587.0	565.8	466.7	289.7	145.5	100.0	54.5	100.0	145.5	289.7
70°	507.6	510.0	502.7	420.4	263.1	134.7	92.6	50.6	92.6	134.7	263.1
72.5°	387.1	413.8	429.8	369.8	234.0	122.8	85.4	48.0	85.4	122.8	234.0
75°	183.0	234.9	304.5	288.5	187.0	103.3	72.9	42.4	72.9	103.3	187.0
77.5°	140.6	167.9	204.7	192.6	131.6	80.1	57.3	34.6	57.3	80.1	131.6
80°	114.4	115.3	116.7	106.9	85.9	65.6	47.5	29.4	47.5	65.6	85.9
82.5°	83.9	83.1	81.6	75.0	63.3	51.1	37.6	24.1	37.6	51.1	63.3
85°	27.4	32.1	37.9	39.0	35.3	30.6	22.7	14.7	22.7	30.6	35.3
87.5°	6.5	6.5	6.5	7.7	10.0	11.0	8.1	5.2	8.1	11.0	10.0
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°	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3
2.5°	363.2	370.7	378.8	385.8	389.3	392.8	389.3	385.8	378.8	370.7	363.2
5°	439.3	478.8	523.0	560.9	579.7	598.6	579.7	560.9	523.0	478.8	439.3
7.5°	609.1	723.5	842.1	940.4	978.1	1015.8	978.1	940.4	842.1	723.5	609.1
10°	778.6	925.7	1028.6	1110.9	1131.2	1151.5	1131.2	1110.9	1028.6	925.7	778.6
12.5°	889.2	1042.1	1114.3	1173.7	1194.6	1215.5	1194.6	1173.7	1114.3	1042.1	889.2
15°	987.7	1145.0	1203.7	1253.5	1276.7	1299.9	1276.7	1253.5	1203.7	1145.0	987.7
17.5°	1042.2	1195.6	1253.7	1300.5	1313.1	1325.7	1313.1	1300.5	1253.7	1195.6	1042.2
20°	1074.0	1218.9	1269.0	1308.5	1316.4	1324.4	1316.4	1308.5	1269.0	1218.9	1074.0
22.5°	1097.0	1232.4	1270.3	1300.8	1309.3	1317.9	1309.3	1300.8	1270.3	1232.4	1097.0
25°	1119.8	1243.4	1267.3	1286.7	1292.5	1298.3	1292.5	1286.7	1267.3	1243.4	1119.8
27.5°	1116.1	1231.4	1247.1	1260.3	1265.9	1271.6	1265.9	1260.3	1247.1	1231.4	1116.1
30°	1106.4	1217.7	1229.3	1240.0	1247.9	1255.9	1247.9	1240.0	1229.3	1217.7	1106.4
32.5°	1091.5	1200.4	1211.4	1224.0	1241.3	1258.5	1241.3	1224.0	1211.4	1200.4	1091.5
35°	1063.6	1174.9	1192.3	1213.3	1245.2	1277.1	1245.2	1213.3	1192.3	1174.9	1063.6
37.5°	1025.3	1146.5	1182.9	1217.9	1248.7	1279.4	1248.7	1217.9	1182.9	1146.5	1025.3
40°	997.3	1125.2	1173.8	1216.8	1242.9	1269.0	1242.9	1216.8	1173.8	1125.2	997.3
42.5°	965.1	1098.0	1154.7	1203.7	1229.8	1255.9	1229.8	1203.7	1154.7	1098.0	965.1
45°	914.1	1054.4	1121.1	1177.2	1201.9	1226.5	1201.9	1177.2	1121.1	1054.4	914.1
47.5°	864.2	1011.4	1082.1	1139.7	1157.7	1175.7	1157.7	1139.7	1082.1	1011.4	864.2
50°	830.7	980.8	1050.4	1106.2	1120.7	1135.2	1120.7	1106.2	1050.4	980.8	830.7
52.5°	797.5	948.8	1014.3	1066.8	1080.1	1093.5	1080.1	1066.8	1014.3	948.8	797.5
55°	745.0	894.7	952.0	997.8	1009.4	1021.0	1009.4	997.8	952.0	894.7	745.0
57.5°	689.1	833.8	882.6	921.6	931.0	940.5	931.0	921.6	882.6	833.8	689.1
60°	648.2	787.1	831.3	866.8	876.2	885.7	876.2	866.8	831.3	787.1	648.2
62.5°	603.9	735.7	776.5	809.3	818.1	826.9	818.1	809.3	776.5	735.7	603.9
65°	536.3	654.8	688.8	715.8	721.6	727.4	721.6	715.8	688.8	654.8	536.3
67.5°	466.7	565.8	587.0	600.1	589.2	578.4	589.2	600.1	587.0	565.8	466.7
70°	420.4	502.7	510.0	507.6	476.4	445.3	476.4	507.6	510.0	502.7	420.4
72.5°	369.8	429.8	413.8	387.1	328.1	269.1	328.1	413.8	429.8	429.8	369.8
75°	288.5	304.5	234.9	183.0	184.5	185.9	184.5	234.9	304.5	304.5	288.5
77.5°	192.6	204.7	167.9	140.6	141.9	143.2	141.9	167.9	204.7	204.7	192.6
80°	106.9	116.7	115.3	114.4	115.1	115.8	115.1	114.4	115.3	116.7	106.9
82.5°	75.0	81.6	83.1	83.9	82.9	81.9	82.9	83.1	81.6	81.6	75.0
85°	39.0	37.9	32.1	27.4	25.9	24.5	25.9	32.1	37.9	37.9	39.0
87.5°	7.7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.7
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: P1435889

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CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	339.3	339.3	339.3	339.3
2.5°	356.2	349.4	343.0	336.6
5°	404.5	373.0	351.2	329.5
7.5°	498.9	405.2	361.0	316.7
10°	587.2	428.2	366.6	305.0
12.5°	655.5	459.3	375.6	292.0
15°	731.8	510.0	390.4	270.8
17.5°	793.6	567.3	408.1	248.9
20°	834.0	607.3	420.3	233.2
22.5°	864.0	637.0	427.9	218.9
25°	896.5	670.2	434.6	199.0
27.5°	901.1	677.6	428.7	179.7
30°	895.4	674.0	421.0	168.0
32.5°	884.6	665.9	411.7	157.6
35°	858.5	642.1	392.0	141.9
37.5°	819.1	604.9	366.7	128.5
40°	790.0	577.4	349.0	120.7
42.5°	756.0	545.2	329.0	112.9
45°	700.3	491.3	297.0	102.8
47.5°	640.7	430.8	262.1	93.3
50°	600.2	389.6	238.9	88.1
52.5°	560.6	349.6	216.2	82.9
55°	502.9	294.1	185.4	76.7
57.5°	448.8	246.5	158.8	71.1
60°	414.8	220.7	144.6	68.5
62.5°	380.9	197.1	130.8	64.6
65°	333.3	167.6	114.0	60.3
67.5°	289.7	145.5	100.0	54.5
70°	263.1	134.7	92.6	50.6
72.5°	234.0	122.8	85.4	48.0
75°	187.0	103.3	72.9	42.4
77.5°	131.6	80.1	57.3	34.6
80°	85.9	65.6	47.5	29.4
82.5°	63.3	51.1	37.6	24.1
85°	35.3	30.6	22.7	14.7
87.5°	10.0	11.0	8.1	5.2
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P1435889
 CATALOG NUMBER: SQ2W-FB-0U-075D-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	15.85	17.53	16.21	17.84	18.16	25.44	27.13	25.81	27.44	27.76
	3H	16.84	18.37	17.22	18.69	19.05	27.11	28.63	27.48	28.96	29.32
	4H	17.28	18.71	17.68	19.06	19.44	27.32	28.76	27.72	29.10	29.48
	6H	17.58	18.91	17.99	19.27	19.66	27.44	28.77	27.85	29.13	29.52
	8H	17.69	18.96	18.11	19.35	19.75	27.48	28.75	27.90	29.14	29.54
	12H	17.77	18.98	18.20	19.37	19.79	27.49	28.70	27.91	29.08	29.51
4H	2H	20.66	22.10	21.06	22.44	22.82	25.90	27.34	26.30	27.69	28.06
	3H	21.87	23.07	22.27	23.46	23.86	27.87	29.07	28.28	29.46	29.86
	4H	22.18	23.27	22.61	23.68	24.12	28.12	29.21	28.56	29.62	30.06
	6H	22.37	23.31	22.82	23.75	24.21	28.30	29.25	28.76	29.69	30.15
	8H	22.43	23.31	22.89	23.75	24.22	28.37	29.26	28.83	29.70	30.16
	12H	22.47	23.26	22.95	23.74	24.21	28.39	29.19	28.87	29.66	30.13
8H	4H	23.45	24.33	23.90	24.77	25.24	28.29	29.17	28.74	29.61	30.08
	6H	23.74	24.47	24.23	24.96	25.44	28.52	29.25	29.01	29.74	30.21
	8H	23.85	24.51	24.36	25.01	25.50	28.62	29.28	29.13	29.78	30.27
	12H	23.93	24.51	24.44	25.00	25.56	28.67	29.24	29.17	29.73	30.29
12H	4H	23.51	24.30	23.99	24.78	25.25	28.28	29.07	28.76	29.55	30.01
	6H	23.86	24.52	24.37	25.02	25.51	28.51	29.17	29.02	29.68	30.16
	8H	24.04	24.61	24.54	25.10	25.66	28.65	29.23	29.16	29.72	30.28