

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: P937938

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937938
REPORT IS A COMBINATION OF REPORTS P933606 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

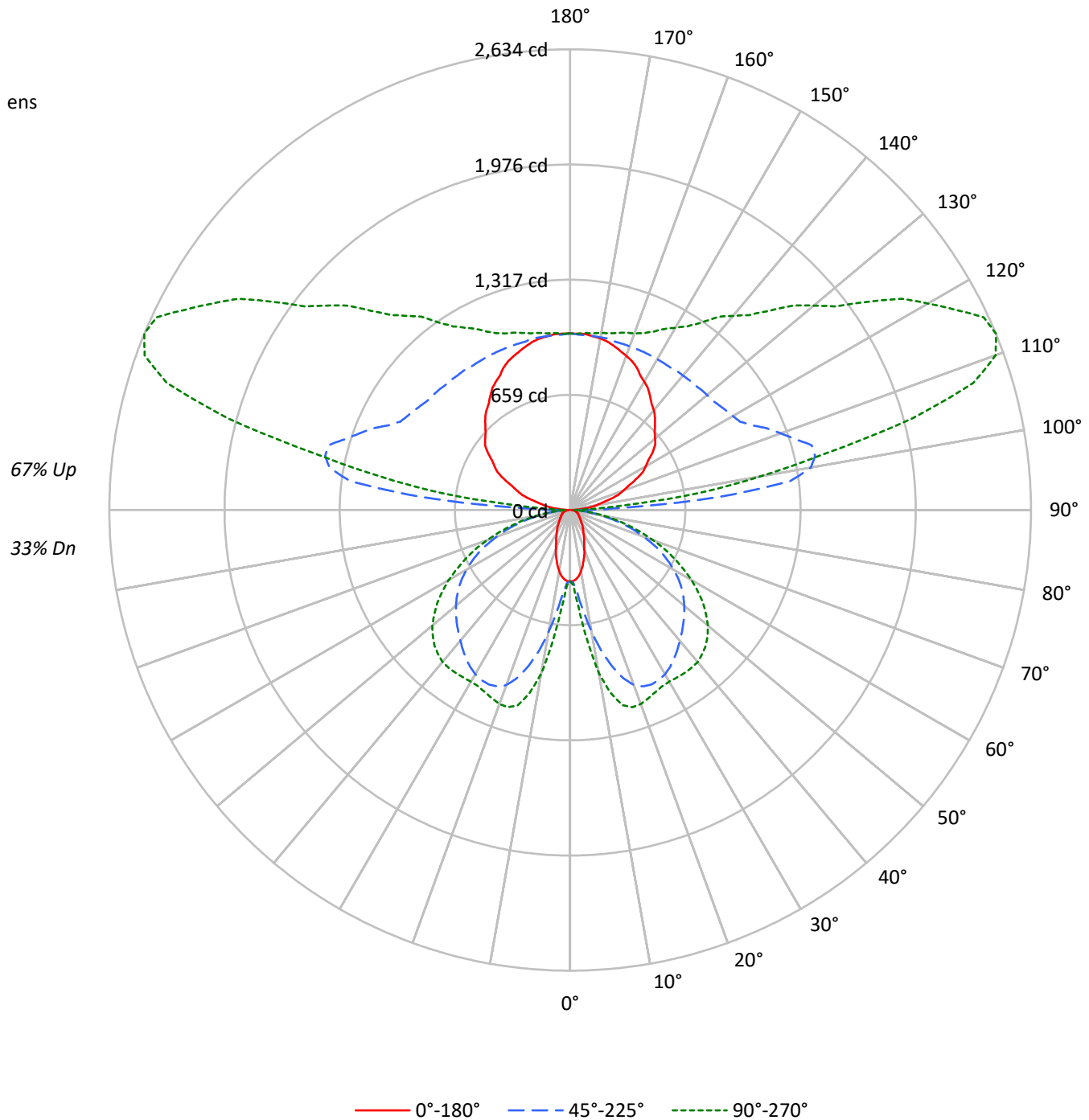
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9692.6 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 83.4
Input Voltage (V): NR
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

TEST NUMBER: P937938
CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-3000K

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33	27
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27	22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23	18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14	11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	10
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	7
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2517	2517	2517
5°	2457	2908	3383
10°	2228	4238	5608
15°	1893	5535	6772
20°	1540	6413	6901
25°	1285	6710	6762
30°	1082	6751	6749
35°	957	6637	6923
40°	833	6488	7104
45°	754	6379	7131
50°	692	6281	7013
55°	662	6139	6702
60°	676	5867	6211
65°	702	5455	5536
70°	747	4754	4677
75°	824	3872	3650
80°	895	2682	2460
85°	781	1421	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7131 cd/sqm



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CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	0.5
10°-20°	233.2	2.4
20°-30°	408.0	4.2
30°-40°	525.2	5.4
40°-50°	586.6	6.1
50°-60°	561.8	5.8
60°-70°	445.2	4.6
70°-80°	261.8	2.7
80°-90°	76.6	0.8
90°-100°	491.9	5.1
100°-110°	1293.2	13.3
110°-120°	1340.9	13.8
120°-130°	1075.6	11.1
130°-140°	843.9	8.7
140°-150°	647.8	6.7
150°-160°	466.5	4.8
160°-170°	285.4	2.9
170°-180°	96.4	1.0
0°-30°	693.8	7.2
0°-40°	1219.0	12.6
0°-60°	2367.4	24.4
0°-90°	3151.0	32.5
90°-120°	3126.0	32.3
90°-150°	5693.3	58.7
90°-180°	6542.0	67.5
0°-180°	9692.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	407	407	407	407	407	
5°	396	425	479	542	561	37
15°	297	548	924	1120	1155	83
25°	190	621	1100	1149	1150	87
35°	128	594	1036	1095	1138	80
45°	88	474	916	1049	1096	68
55°	63	301	777	903	927	57
65°	50	160	577	649	658	49
75°	37	98	316	348	349	38
85°	13	30	78	86	88	14
90°	7	19	52	26	26	6
95°	65	255	847	437	297	72
105°	233	353	1430	2171	2025	247
115°	414	503	1145	2284	2607	409
125°	576	645	1042	1760	2076	511
135°	686	755	1009	1421	1611	531
145°	796	847	996	1212	1307	499
155°	899	924	996	1094	1126	413
165°	970	983	996	1036	1048	274
175°	1009	1009	1003	1016	1016	96
180°	1009	1009	1009	1009	1009	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8
2.5°	406.8	406.8	409.4	410.7	413.3	414.7	417.3	419.9	427.7	429.0	431.7
5°	396.3	401.6	418.6	425.1	443.4	468.3	478.7	495.8	531.1	541.5	548.1
7.5°	380.6	392.4	434.3	444.7	490.5	555.9	583.4	620.0	676.3	703.7	726.0
10°	355.8	380.6	455.2	480.1	554.6	654.0	705.0	756.1	841.1	879.0	893.4
12.5°	328.3	368.9	477.4	511.4	618.7	763.9	825.4	881.6	978.4	1029.5	1037.4
15°	296.9	351.9	498.4	548.1	686.7	855.5	923.5	992.9	1083.2	1119.8	1128.9
17.5°	269.5	338.8	518.0	570.3	739.0	937.9	1007.3	1064.8	1138.1	1162.9	1169.5
20°	235.4	317.9	531.1	599.1	794.0	998.1	1064.8	1109.3	1159.0	1174.7	1177.3
22.5°	210.6	295.6	538.9	609.6	830.6	1034.8	1091.0	1126.3	1160.3	1165.6	1166.9
25°	189.7	270.8	537.6	621.3	862.0	1057.0	1100.2	1126.3	1145.9	1148.6	1148.6
27.5°	170.0	243.3	532.4	623.9	885.6	1062.2	1096.2	1114.5	1123.7	1128.9	1128.9
30°	153.0	217.1	519.3	618.7	896.0	1057.0	1084.5	1093.6	1102.8	1110.6	1114.5
32.5°	140.0	192.3	499.7	608.2	897.3	1043.9	1063.5	1068.8	1081.8	1100.2	1106.7
35°	128.2	167.4	477.4	593.9	889.5	1023.0	1036.1	1041.3	1067.5	1094.9	1104.1
37.5°	116.4	149.1	448.7	569.0	877.7	998.1	1007.3	1016.4	1057.0	1089.7	1100.2
40°	104.6	133.4	414.7	541.5	859.4	968.0	975.8	990.2	1043.9	1081.8	1092.3
42.5°	95.5	120.3	378.0	512.8	835.8	933.9	945.7	966.6	1028.2	1068.8	1080.5
45°	87.6	107.3	338.8	473.5	805.8	898.6	915.6	944.4	1009.9	1049.1	1059.6
47.5°	79.8	98.1	298.2	433.0	773.1	863.3	885.6	918.3	985.0	1023.0	1032.1
50°	73.3	88.9	257.7	389.8	737.7	825.4	851.5	885.6	953.6	988.9	1000.7
52.5°	68.0	81.1	219.8	346.6	697.2	786.1	816.2	851.5	915.6	949.6	957.5
55°	62.8	74.6	187.1	300.9	655.3	744.3	777.0	811.0	873.8	902.6	907.8
57.5°	60.2	69.3	159.6	257.7	610.9	697.2	733.8	765.2	824.1	846.3	851.5
60°	56.2	65.4	138.7	221.1	562.5	652.7	684.1	715.5	765.2	783.5	787.4
62.5°	52.3	62.8	123.0	185.7	512.8	600.4	631.8	660.6	702.4	715.5	720.7
65°	49.7	60.2	111.2	159.6	461.7	545.5	576.9	601.7	635.7	648.8	651.4
67.5°	47.1	57.6	102.0	137.3	410.7	490.5	514.1	537.6	563.8	576.9	578.2
70°	43.2	54.9	94.2	121.6	358.4	427.7	447.4	472.2	493.1	499.7	503.6
72.5°	40.5	51.0	88.9	109.9	304.8	367.6	385.9	400.3	418.6	425.1	425.1
75°	36.6	45.8	83.7	98.1	249.8	300.9	316.5	330.9	345.3	347.9	344.0
77.5°	32.7	40.5	71.9	82.4	194.9	238.1	251.1	259.0	270.8	273.4	274.7
80°	27.5	35.3	56.2	64.1	141.3	175.3	184.4	191.0	201.4	201.4	204.1
82.5°	20.9	27.5	40.5	45.8	95.5	120.3	128.2	132.1	138.7	138.7	138.7
85°	13.1	17.0	26.2	30.1	57.6	73.3	78.5	79.8	85.0	86.3	86.3
87.5°	6.5	9.2	17.0	18.3	30.1	37.9	37.9	40.5	40.5	39.2	37.9
90°	6.8	12.2	17.6	18.9	29.7	44.2	51.5	45.7	34.3	25.7	25.7
92.5°	27.1	73.2	119.2	130.7	183.7	254.5	289.9	254.0	182.4	128.7	123.6
95°	65.1	149.3	233.5	254.6	452.1	715.6	847.3	756.1	573.6	436.8	421.3
97.5°	112.4	186.7	261.1	279.7	609.0	1048.3	1267.9	1210.2	1094.9	1008.4	978.9
100°	149.0	216.4	283.8	300.7	666.1	1153.5	1397.2	1401.4	1409.8	1416.1	1381.0
102.5°	180.2	243.0	306.0	321.7	692.4	1186.6	1433.7	1507.1	1654.1	1764.2	1734.1
105°	233.0	286.3	339.5	352.8	711.8	1190.4	1429.7	1594.3	1923.6	2170.6	2154.4
107.5°	287.2	336.8	386.5	398.9	715.4	1137.4	1348.4	1578.1	2037.4	2381.9	2385.8
110°	323.7	368.5	413.3	424.6	709.9	1090.4	1280.7	1537.4	2050.9	2436.1	2452.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	359.6	402.4	445.1	455.8	710.2	1049.4	1219.0	1481.8	2007.3	2401.5	2427.4
115°	413.8	453.2	492.7	502.6	716.8	1002.4	1145.2	1398.4	1904.7	2284.4	2320.3
117.5°	467.3	503.2	538.9	547.9	730.1	972.9	1094.4	1322.9	1779.8	2122.5	2162.3
120°	498.5	532.2	565.9	574.3	740.9	963.0	1074.1	1282.8	1700.3	2013.4	2052.2
122.5°	529.0	563.0	597.0	605.5	756.5	957.8	1058.6	1246.6	1622.5	1904.4	1942.5
125°	575.6	606.7	637.6	645.4	777.5	953.6	1041.6	1201.3	1520.7	1760.2	1795.3
127.5°	613.6	644.9	676.2	684.0	798.5	951.1	1027.4	1164.5	1438.8	1644.4	1674.0
130°	633.9	667.6	701.3	709.7	813.8	952.5	1021.9	1144.0	1388.1	1571.2	1598.6
132.5°	654.9	688.6	722.3	730.8	826.3	953.6	1017.2	1126.5	1345.0	1508.9	1533.4
135°	686.0	716.7	747.4	755.1	839.8	952.7	1009.1	1100.6	1283.6	1420.9	1442.0
137.5°	717.9	748.3	778.7	786.3	860.1	958.5	1007.7	1085.1	1239.8	1355.8	1373.1
140°	744.3	772.3	800.3	807.2	872.5	959.5	1003.0	1069.8	1203.5	1303.7	1319.9
142.5°	764.6	790.5	816.4	822.9	882.9	963.0	1003.0	1061.7	1179.1	1267.2	1281.1
145°	795.7	818.3	840.9	846.6	896.5	963.0	996.2	1044.3	1140.3	1212.3	1222.9
147.5°	826.9	848.9	870.9	876.4	916.3	969.6	996.2	1034.0	1109.6	1166.3	1175.0
150°	847.3	867.2	886.9	891.9	926.7	973.0	996.2	1028.1	1092.0	1139.8	1146.9
152.5°	868.2	883.3	898.4	902.1	933.5	975.3	996.2	1023.4	1077.9	1118.8	1124.1
155°	899.4	910.6	921.7	924.4	948.3	980.3	996.2	1017.9	1061.3	1093.8	1097.4
157.5°	922.4	933.3	944.1	946.8	963.2	985.2	996.2	1013.0	1046.8	1072.1	1074.5
160°	938.0	946.4	954.9	957.0	970.1	987.5	996.2	1010.7	1039.6	1061.3	1062.7
162.5°	953.6	959.8	966.2	967.8	977.3	989.9	996.2	1008.4	1032.7	1051.1	1052.5
165°	970.5	976.2	982.0	983.4	987.7	993.3	996.2	1004.9	1022.5	1035.5	1036.9
167.5°	986.1	988.8	991.5	992.2	995.8	1000.6	1003.0	1008.8	1020.2	1028.7	1029.3
170°	996.2	998.9	1001.6	1002.3	1002.6	1002.8	1003.0	1008.8	1020.2	1028.7	1028.7
172.5°	1001.6	1002.2	1002.8	1003.0	1003.0	1003.0	1003.0	1007.5	1016.5	1023.3	1022.8
175°	1009.1	1009.1	1009.1	1009.1	1007.1	1004.4	1003.0	1005.9	1011.6	1015.9	1015.9
177.5°	1009.1	1009.1	1009.1	1009.1	1007.5	1005.4	1004.3	1006.6	1011.1	1014.5	1013.9
180°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	406.8	406.8
2.5°	434.3	431.7
5°	558.5	561.2
7.5°	752.1	750.8
10°	935.3	947.0
12.5°	1068.8	1071.4
15°	1149.9	1155.1
17.5°	1181.3	1182.6
20°	1182.6	1179.9
22.5°	1168.2	1165.6
25°	1151.2	1149.9
27.5°	1135.5	1136.8
30°	1128.9	1132.9
32.5°	1128.9	1135.5
35°	1131.6	1138.1
37.5°	1130.2	1138.1
40°	1125.0	1134.2
42.5°	1110.6	1117.2
45°	1088.4	1096.2
47.5°	1059.6	1064.8
50°	1023.0	1028.2
52.5°	977.1	978.4
55°	922.2	927.4
57.5°	863.3	864.6
60°	797.9	801.8
62.5°	728.6	728.6
65°	655.3	657.9
67.5°	579.5	586.0
70°	502.3	503.6
72.5°	426.4	426.4
75°	347.9	349.2
77.5°	273.4	273.4
80°	202.7	204.1
82.5°	140.0	142.6
85°	87.6	87.6
87.5°	40.5	36.6
90°	25.7	25.7
92.5°	103.1	82.6
95°	359.3	297.3
97.5°	861.0	743.0
100°	1240.5	1099.9
102.5°	1613.7	1493.4
105°	2089.7	2025.0
107.5°	2401.4	2417.1
110°	2520.4	2587.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2530.9	2634.5
115°	2463.8	2607.4
117.5°	2321.5	2480.8
120°	2206.9	2361.6
122.5°	2095.1	2247.8
125°	1935.9	2076.5
127.5°	1792.6	1911.2
130°	1708.2	1817.8
132.5°	1631.6	1729.7
135°	1526.6	1611.2
137.5°	1442.3	1511.6
140°	1384.6	1449.3
142.5°	1336.7	1392.5
145°	1265.0	1307.1
147.5°	1209.9	1244.8
150°	1175.2	1203.5
152.5°	1145.5	1166.9
155°	1111.5	1125.6
157.5°	1084.5	1094.4
160°	1068.4	1074.1
162.5°	1057.9	1063.3
165°	1042.7	1048.4
167.5°	1031.7	1034.1
170°	1028.7	1028.7
172.5°	1020.7	1018.6
175°	1015.9	1015.9
177.5°	1011.6	1009.1
180°	1009.1	1009.1



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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	2.35	3.09	3.43	4.18	5.68	15.51	16.26	16.60	17.35	18.84
	3H	3.04	3.71	4.14	4.81	6.33	17.34	18.00	18.43	19.10	20.62
	4H	3.33	3.97	4.44	5.07	6.59	17.97	18.61	19.08	19.71	21.23
	6H	3.58	4.16	4.70	5.27	6.80	18.39	18.98	19.51	20.08	21.61
	8H	3.64	4.20	4.76	5.32	6.85	18.51	19.06	19.63	20.18	21.71
	12H	3.66	4.19	4.78	5.30	6.85	18.57	19.10	19.69	20.21	21.76
4H	2H	9.54	10.17	10.65	11.27	12.80	15.77	16.41	16.88	17.51	19.03
	3H	11.10	11.63	12.22	12.75	14.29	17.80	18.33	18.92	19.46	20.99
	4H	11.18	11.67	12.31	12.79	14.34	18.56	19.05	19.68	20.16	21.72
	6H	11.19	11.61	12.32	12.75	14.29	19.09	19.51	20.22	20.65	22.19
	8H	11.16	11.55	12.29	12.69	14.25	19.24	19.63	20.37	20.77	22.33
	12H	11.11	11.47	12.26	12.61	14.18	19.33	19.68	20.48	20.83	22.39
8H	4H	12.62	13.01	13.75	14.14	15.70	18.61	19.00	19.74	20.13	21.69
	6H	12.85	13.18	14.01	14.35	15.91	19.23	19.55	20.38	20.73	22.28
	8H	12.87	13.15	14.03	14.31	15.88	19.44	19.73	20.60	20.88	22.46
	12H	12.83	13.08	14.00	14.23	15.84	19.58	19.83	20.74	20.98	22.59
12H	4H	12.75	13.11	13.90	14.25	15.82	18.56	18.91	19.70	20.05	21.62
	6H	13.11	13.39	14.27	14.54	16.12	19.21	19.49	20.37	20.65	22.23
	8H	13.17	13.42	14.34	14.57	16.19	19.43	19.68	20.60	20.83	22.44