

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: P937940

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937940
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-6-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

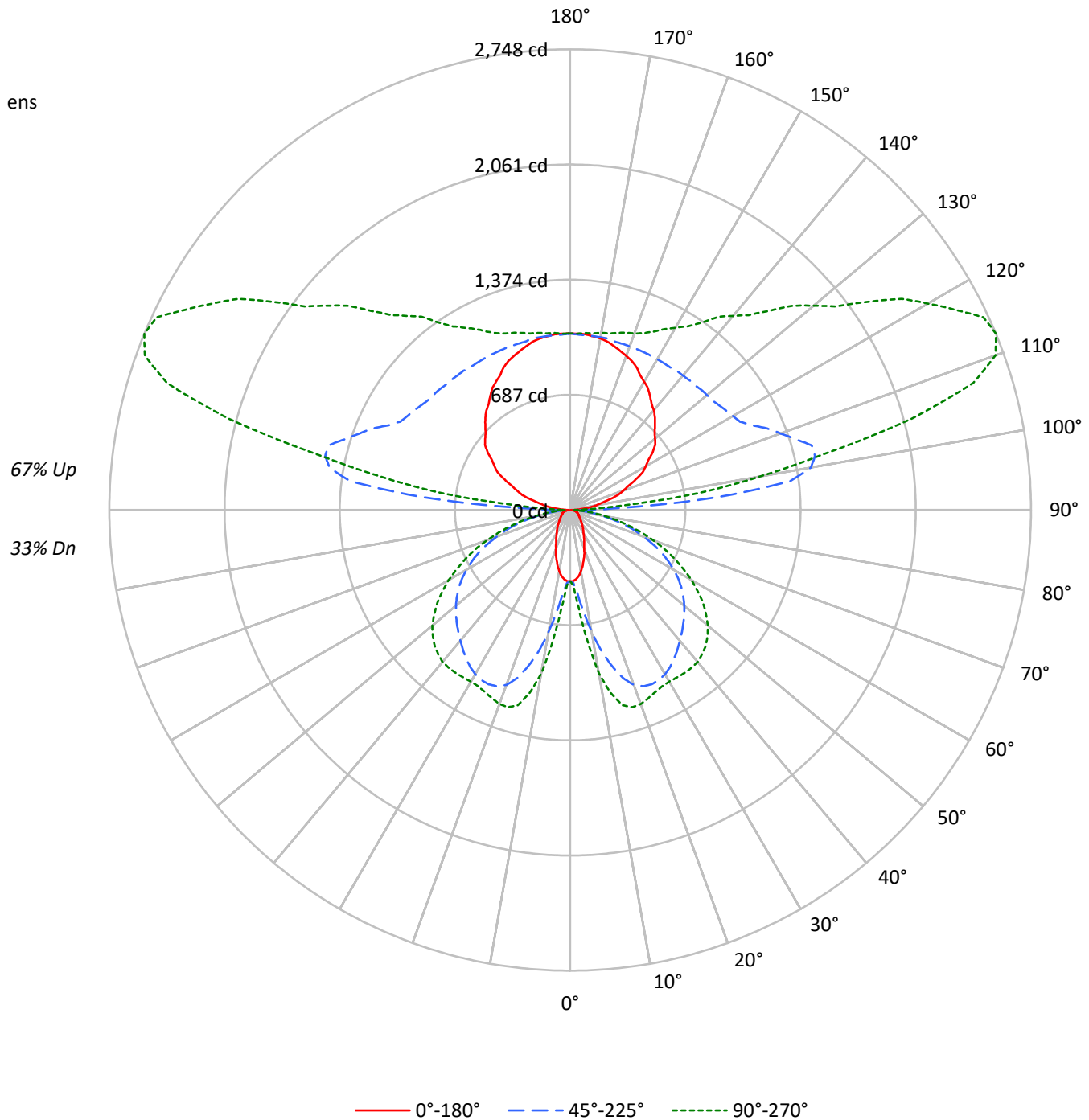
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10110.5 lumens
Efficiency: N/A
Efficacy: 121.2 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

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CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-4000K

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°	2625	2625	2625
5°	2563	3033	3529
10°	2324	4420	5850
15°	1975	5774	7064
20°	1607	6690	7199
25°	1340	6999	7053
30°	1129	7041	7040
35°	998	6922	7222
40°	870	6768	7410
45°	787	6655	7439
50°	721	6553	7316
55°	690	6404	6991
60°	706	6120	6479
65°	732	5689	5775
70°	778	4958	4879
75°	860	4039	3807
80°	934	2798	2566
85°	811	1482	1313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7439 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	0.5
10°-20°	243.3	2.4
20°-30°	425.6	4.2
30°-40°	547.8	5.4
40°-50°	611.9	6.1
50°-60°	586.0	5.8
60°-70°	464.4	4.6
70°-80°	273.1	2.7
80°-90°	79.9	0.8
90°-100°	513.1	5.1
100°-110°	1349.0	13.3
110°-120°	1398.7	13.8
120°-130°	1122.0	11.1
130°-140°	880.3	8.7
140°-150°	675.7	6.7
150°-160°	486.6	4.8
160°-170°	297.7	2.9
170°-180°	100.6	1.0
0°-30°	723.7	7.2
0°-40°	1271.6	12.6
0°-60°	2469.5	24.4
0°-90°	3286.8	32.5
90°-120°	3260.8	32.3
90°-150°	5938.8	58.7
90°-180°	6824.0	67.5
0°-180°	10110.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	424	424	424	424	424	
5°	413	443	499	565	585	38
15°	310	572	963	1168	1205	86
25°	198	648	1148	1198	1199	91
35°	134	620	1081	1142	1187	83
45°	91	494	955	1094	1144	71
55°	66	314	810	942	967	60
65°	52	166	602	677	686	51
75°	38	102	330	363	364	40
85°	14	31	82	90	91	14
90°	7	20	54	27	27	7
95°	68	266	884	456	310	75
105°	243	368	1491	2264	2112	258
115°	432	524	1195	2383	2720	426
125°	600	673	1087	1836	2166	533
135°	716	788	1053	1482	1681	554
145°	830	883	1039	1265	1364	520
155°	938	964	1039	1141	1174	431
165°	1012	1026	1039	1080	1094	286
175°	1053	1053	1046	1060	1060	100
180°	1053	1053	1053	1053	1053	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
2.5°	424.3	424.3	427.1	428.4	431.2	432.5	435.3	438.0	446.2	447.5	450.3
5°	413.4	418.9	436.6	443.4	462.6	488.5	499.4	517.1	554.0	564.9	571.7
7.5°	397.1	409.3	453.0	463.9	511.7	579.9	608.5	646.8	705.4	734.1	757.3
10°	371.1	397.1	474.8	500.8	578.5	682.2	735.4	788.7	877.3	916.9	931.9
12.5°	342.5	384.8	498.0	533.5	645.4	796.8	861.0	919.6	1020.6	1073.9	1082.1
15°	309.7	367.0	519.9	571.7	716.3	892.4	963.3	1035.7	1129.9	1168.1	1177.6
17.5°	281.1	353.4	540.3	594.9	770.9	978.3	1050.7	1110.8	1187.2	1213.1	1219.9
20°	245.6	331.6	554.0	624.9	828.2	1041.2	1110.8	1157.1	1209.0	1225.4	1228.1
22.5°	219.7	308.4	562.2	635.8	866.4	1079.4	1138.0	1174.9	1210.4	1215.8	1217.2
25°	197.8	282.4	560.8	648.1	899.2	1102.6	1147.6	1174.9	1195.4	1198.1	1198.1
27.5°	177.4	253.8	555.3	650.8	923.7	1108.0	1143.5	1162.6	1172.2	1177.6	1177.6
30°	159.6	226.5	541.7	645.4	934.7	1102.6	1131.2	1140.8	1150.3	1158.5	1162.6
32.5°	146.0	200.6	521.2	634.5	936.0	1088.9	1109.4	1114.9	1128.5	1147.6	1154.4
35°	133.7	174.7	498.0	619.5	927.8	1067.1	1080.7	1086.2	1113.5	1142.1	1151.7
37.5°	121.4	155.5	468.0	593.5	915.5	1041.2	1050.7	1060.3	1102.6	1136.7	1147.6
40°	109.2	139.2	432.5	564.9	896.4	1009.7	1017.9	1032.9	1088.9	1128.5	1139.4
42.5°	99.6	125.5	394.3	534.9	871.9	974.2	986.5	1008.3	1072.6	1114.9	1127.1
45°	91.4	111.9	353.4	493.9	840.5	937.4	955.1	985.1	1053.5	1094.4	1105.3
47.5°	83.2	102.3	311.1	451.6	806.4	900.5	923.7	957.8	1027.4	1067.1	1076.6
50°	76.4	92.8	268.8	406.6	769.6	861.0	888.3	923.7	994.7	1031.5	1043.9
52.5°	71.0	84.6	229.2	361.6	727.3	820.0	851.4	888.3	955.1	990.6	998.8
55°	65.5	77.8	195.1	313.8	683.6	776.4	810.5	846.0	911.5	941.5	946.9
57.5°	62.8	72.3	166.5	268.8	637.2	727.3	765.5	798.2	859.6	882.8	888.3
60°	58.7	68.2	144.6	230.6	586.7	680.9	713.6	746.4	798.2	817.3	821.4
62.5°	54.6	65.5	128.3	193.8	534.9	626.3	659.0	689.1	732.7	746.4	751.8
65°	51.8	62.8	116.0	166.5	481.7	569.0	601.7	627.6	663.1	676.8	679.5
67.5°	49.1	60.0	106.4	143.3	428.4	511.7	536.2	560.8	588.1	601.7	603.1
70°	45.0	57.3	98.2	126.9	373.9	446.2	466.6	492.6	514.4	521.2	525.3
72.5°	42.3	53.2	92.8	114.6	317.9	383.4	402.5	417.5	436.6	443.4	443.4
75°	38.2	47.8	87.3	102.3	260.6	313.8	330.2	345.2	360.2	362.9	358.9
77.5°	34.1	42.3	75.0	86.0	203.3	248.3	262.0	270.2	282.4	285.2	286.5
80°	28.7	36.8	58.7	66.9	147.4	182.8	192.4	199.2	210.1	210.1	212.9
82.5°	21.8	28.7	42.3	47.8	99.6	125.5	133.7	137.8	144.6	144.6	144.6
85°	13.6	17.7	27.3	31.4	60.0	76.4	81.9	83.2	88.7	90.1	90.1
87.5°	6.8	9.6	17.7	19.1	31.4	39.6	39.6	42.3	42.3	40.9	39.6
90°	7.1	12.7	18.4	19.7	31.0	46.1	53.7	47.7	35.7	26.8	26.8
92.5°	28.3	76.3	124.3	136.4	191.7	265.4	302.4	265.0	190.3	134.3	128.9
95°	67.9	155.7	243.6	265.6	471.6	746.4	883.8	788.7	598.4	455.6	439.4
97.5°	117.3	194.8	272.3	291.7	635.3	1093.5	1322.5	1262.4	1142.1	1051.9	1021.2
100°	155.5	225.8	296.1	313.6	694.9	1203.3	1457.4	1461.8	1470.6	1477.2	1440.5
102.5°	187.9	253.5	319.2	335.6	722.3	1237.7	1495.5	1572.1	1725.4	1840.3	1808.9
105°	243.1	298.6	354.1	368.0	742.4	1241.7	1491.3	1663.1	2006.6	2264.2	2247.3
107.5°	299.5	351.3	403.2	416.1	746.3	1186.4	1406.6	1646.2	2125.3	2484.6	2488.7
110°	337.7	384.4	431.2	442.9	740.5	1137.4	1335.9	1603.7	2139.4	2541.2	2558.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	375.1	419.7	464.3	475.5	740.8	1094.7	1271.6	1545.7	2093.9	2505.0	2532.1
115°	431.6	472.7	513.9	524.2	747.7	1045.6	1194.6	1458.7	1986.8	2382.9	2420.4
117.5°	487.5	524.9	562.2	571.5	761.5	1014.9	1141.6	1379.9	1856.6	2214.1	2255.5
120°	519.9	555.2	590.3	599.1	772.8	1004.5	1120.4	1338.2	1773.6	2100.3	2140.6
122.5°	551.8	587.3	622.7	631.6	789.1	999.1	1104.2	1300.3	1692.5	1986.6	2026.3
125°	600.5	632.8	665.1	673.2	811.0	994.7	1086.6	1253.1	1586.2	1836.1	1872.8
127.5°	640.0	672.7	705.3	713.5	833.0	992.1	1071.7	1214.7	1500.8	1715.3	1746.2
130°	661.2	696.4	731.5	740.4	848.9	993.6	1066.0	1193.4	1448.0	1639.0	1667.5
132.5°	683.1	718.3	753.5	762.3	861.9	994.7	1061.1	1175.1	1403.0	1573.9	1599.5
135°	715.6	747.6	779.6	787.7	876.0	993.8	1052.6	1148.1	1339.0	1482.2	1504.2
137.5°	748.8	780.6	812.3	820.2	897.2	999.9	1051.2	1131.9	1293.2	1414.3	1432.3
140°	776.4	805.6	834.8	842.1	910.1	1000.9	1046.3	1115.9	1255.4	1359.9	1376.8
142.5°	797.6	824.6	851.6	858.3	921.0	1004.5	1046.3	1107.5	1229.9	1321.8	1336.3
145°	830.0	853.6	877.2	883.1	935.1	1004.5	1039.2	1089.3	1189.4	1264.6	1275.6
147.5°	862.6	885.5	908.5	914.2	955.8	1011.4	1039.2	1078.6	1157.4	1216.5	1225.6
150°	883.8	904.5	925.2	930.4	966.7	1015.0	1039.2	1072.5	1139.0	1189.0	1196.4
152.5°	905.6	921.4	937.1	941.0	973.8	1017.3	1039.2	1067.5	1124.4	1167.1	1172.6
155°	938.2	949.8	961.4	964.3	989.2	1022.5	1039.2	1061.8	1107.0	1141.0	1144.7
157.5°	962.2	973.5	984.8	987.6	1004.8	1027.7	1039.2	1056.7	1091.9	1118.3	1120.9
160°	978.4	987.2	996.1	998.2	1011.9	1030.1	1039.2	1054.3	1084.4	1107.0	1108.5
162.5°	994.7	1001.2	1007.9	1009.5	1019.4	1032.6	1039.2	1051.9	1077.3	1096.4	1097.8
165°	1012.3	1018.3	1024.3	1025.8	1030.3	1036.2	1039.2	1048.3	1066.5	1080.2	1081.6
167.5°	1028.6	1031.4	1034.3	1035.0	1038.7	1043.7	1046.3	1052.3	1064.2	1073.1	1073.7
170°	1039.2	1042.0	1044.8	1045.5	1045.8	1046.1	1046.3	1052.3	1064.2	1073.1	1073.1
172.5°	1044.8	1045.4	1046.1	1046.3	1046.3	1046.3	1046.3	1051.0	1060.4	1067.5	1066.9
175°	1052.6	1052.6	1052.6	1052.6	1050.5	1047.7	1046.3	1049.3	1055.3	1059.7	1059.7
177.5°	1052.6	1052.6	1052.6	1052.6	1051.0	1048.7	1047.6	1050.0	1054.7	1058.3	1057.6
180°	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6	1052.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	424.3	424.3
2.5°	453.0	450.3
5°	582.6	585.4
7.5°	784.6	783.2
10°	975.6	987.9
12.5°	1114.9	1117.6
15°	1199.4	1204.9
17.5°	1232.2	1233.6
20°	1233.6	1230.8
22.5°	1218.5	1215.8
25°	1200.8	1199.4
27.5°	1184.4	1185.8
30°	1177.6	1181.7
32.5°	1177.6	1184.4
35°	1180.3	1187.2
37.5°	1179.0	1187.2
40°	1173.5	1183.1
42.5°	1158.5	1165.3
45°	1135.3	1143.5
47.5°	1105.3	1110.8
50°	1067.1	1072.6
52.5°	1019.2	1020.6
55°	961.9	967.4
57.5°	900.5	901.9
60°	832.3	836.4
62.5°	760.0	760.0
65°	683.6	686.3
67.5°	604.5	611.3
70°	524.0	525.3
72.5°	444.8	444.8
75°	362.9	364.3
77.5°	285.2	285.2
80°	211.5	212.9
82.5°	146.0	148.7
85°	91.4	91.4
87.5°	42.3	38.2
90°	26.8	26.8
92.5°	107.5	86.1
95°	374.8	310.1
97.5°	898.1	775.0
100°	1294.0	1147.3
102.5°	1683.3	1557.8
105°	2179.8	2112.3
107.5°	2505.0	2521.3
110°	2629.0	2699.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2640.0	2748.1
115°	2570.1	2719.8
117.5°	2421.6	2587.7
120°	2302.0	2463.4
122.5°	2185.5	2344.7
125°	2019.4	2166.0
127.5°	1869.9	1993.7
130°	1781.9	1896.1
132.5°	1701.9	1804.3
135°	1592.4	1680.6
137.5°	1504.5	1576.8
140°	1444.3	1511.8
142.5°	1394.4	1452.5
145°	1319.5	1363.5
147.5°	1262.1	1298.5
150°	1225.9	1255.4
152.5°	1194.9	1217.2
155°	1159.4	1174.2
157.5°	1131.2	1141.6
160°	1114.5	1120.4
162.5°	1103.5	1109.1
165°	1087.7	1093.6
167.5°	1076.2	1078.7
170°	1073.1	1073.1
172.5°	1064.7	1062.5
175°	1059.7	1059.7
177.5°	1055.2	1052.6
180°	1052.6	1052.6



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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	2.49	3.24	3.58	4.33	5.83	15.66	16.40	16.74	17.49	18.99
	3H	3.19	3.86	4.28	4.96	6.47	17.48	18.15	18.58	19.25	20.77
	4H	3.48	4.12	4.59	5.22	6.74	18.12	18.75	19.23	19.85	21.38
	6H	3.73	4.31	4.84	5.41	6.95	18.54	19.12	19.65	20.23	21.76
	8H	3.79	4.35	4.91	5.47	6.99	18.65	19.21	19.77	20.33	21.86
	12H	3.80	4.33	4.93	5.45	7.00	18.71	19.24	19.84	20.36	21.91
4H	2H	9.68	10.32	10.80	11.42	12.94	15.92	16.55	17.03	17.65	19.17
	3H	11.24	11.77	12.36	12.90	14.43	17.95	18.48	19.07	19.61	21.14
	4H	11.33	11.82	12.46	12.94	14.49	18.70	19.19	19.83	20.31	21.86
	6H	11.33	11.75	12.47	12.89	14.44	19.23	19.65	20.37	20.79	22.34
	8H	11.31	11.70	12.44	12.83	14.39	19.39	19.78	20.52	20.91	22.48
	12H	11.26	11.62	12.41	12.76	14.33	19.47	19.83	20.62	20.97	22.54
8H	4H	12.76	13.15	13.89	14.29	15.85	18.76	19.15	19.89	20.28	21.84
	6H	13.00	13.32	14.15	14.50	16.06	19.37	19.70	20.53	20.87	22.43
	8H	13.02	13.30	14.17	14.45	16.03	19.59	19.87	20.75	21.03	22.61
	12H	12.98	13.23	14.14	14.38	15.99	19.73	19.98	20.89	21.13	22.74
12H	4H	12.90	13.25	14.05	14.40	15.97	18.70	19.06	19.85	20.20	21.77
	6H	13.25	13.54	14.41	14.69	16.27	19.36	19.64	20.52	20.79	22.37
	8H	13.32	13.57	14.48	14.72	16.33	19.58	19.83	20.74	20.98	22.59