

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: P937939

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937939  
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-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

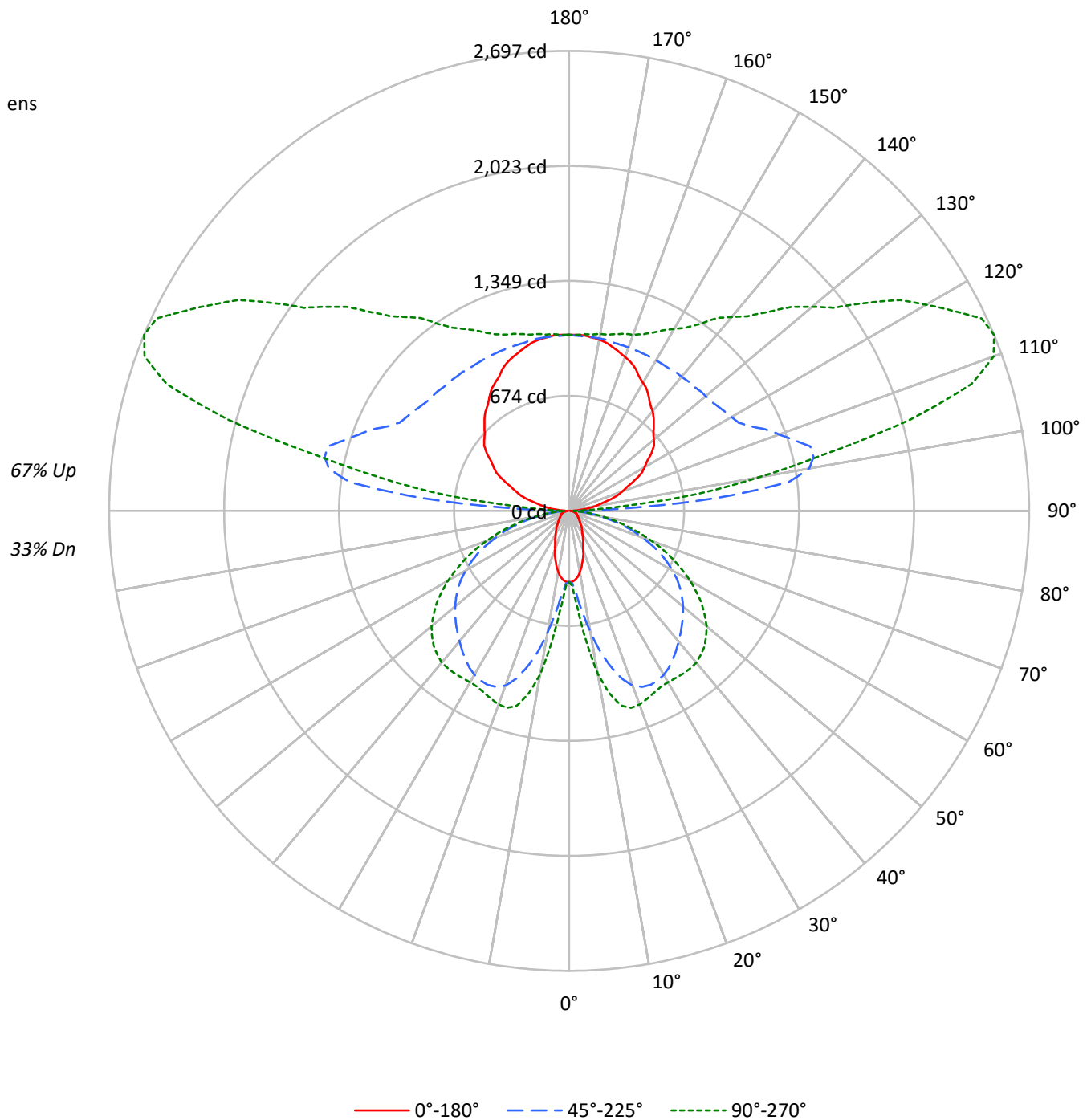
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9921.4 lumens  
Efficiency: N/A  
Efficacy: 119.0 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<sub>in</sub>): 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-6-3500K

### 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°	2576	2576	2576
5°	2516	2976	3462
10°	2281	4338	5740
15°	1938	5666	6932
20°	1577	6565	7065
25°	1315	6868	6921
30°	1109	6910	6908
35°	979	6793	7087
40°	853	6641	7271
45°	772	6531	7300
50°	708	6430	7179
55°	677	6284	6860
60°	693	6005	6358
65°	719	5583	5667
70°	764	4865	4788
75°	844	3963	3736
80°	915	2746	2518
85°	799	1453	1288

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	0.5
10°-20°	238.7	2.4
20°-30°	417.6	4.2
30°-40°	537.6	5.4
40°-50°	600.4	6.1
50°-60°	575.1	5.8
60°-70°	455.7	4.6
70°-80°	268.0	2.7
80°-90°	78.4	0.8
90°-100°	503.5	5.1
100°-110°	1323.7	13.3
110°-120°	1372.6	13.8
120°-130°	1101.0	11.1
130°-140°	863.9	8.7
140°-150°	663.1	6.7
150°-160°	477.5	4.8
160°-170°	292.2	2.9
170°-180°	98.7	1.0
0°-30°	710.2	7.2
0°-40°	1247.8	12.6
0°-60°	2423.3	24.4
0°-90°	3225.4	32.5
90°-120°	3199.8	32.3
90°-150°	5827.7	58.7
90°-180°	6696.0	67.5
0°-180°	9921.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	406	435	490	554	574	37
15°	304	561	945	1146	1182	85
25°	194	636	1126	1176	1177	89
35°	131	608	1060	1121	1165	82
45°	90	485	937	1074	1122	69
55°	64	308	795	924	949	59
65°	51	163	590	664	674	50
75°	38	100	324	356	358	39
85°	13	31	80	88	90	14
90°	7	19	53	26	26	7
95°	67	261	867	447	304	74
105°	238	361	1464	2222	2073	253
115°	424	514	1172	2338	2669	418
125°	589	661	1066	1802	2126	523
135°	702	773	1033	1454	1649	543
145°	814	867	1020	1241	1338	510
155°	921	946	1020	1120	1152	423
165°	993	1007	1020	1060	1073	280
175°	1033	1033	1027	1040	1040	98
180°	1033	1033	1033	1033	1033	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	416.4	416.4	419.1	420.4	423.1	424.4	427.1	429.8	437.8	439.2	441.8
5°	405.7	411.1	428.5	435.2	453.9	479.3	490.0	507.5	543.6	554.3	561.0
7.5°	389.6	401.7	444.5	455.2	502.1	569.0	597.2	634.7	692.2	720.3	743.1
10°	364.2	389.6	465.9	491.4	567.7	669.5	721.7	773.9	860.9	899.8	914.5
12.5°	336.1	377.6	488.7	523.5	633.3	781.9	844.9	902.4	1001.5	1053.8	1061.9
15°	303.9	360.2	510.1	561.0	702.9	875.7	945.3	1016.3	1108.7	1146.2	1155.6
17.5°	275.8	346.8	530.2	583.8	756.5	960.0	1031.1	1090.0	1165.0	1190.4	1197.1
20°	241.0	325.4	543.6	613.2	812.7	1021.7	1090.0	1135.5	1186.4	1202.4	1205.1
22.5°	215.6	302.6	551.6	623.9	850.2	1059.2	1116.8	1152.9	1187.7	1193.1	1194.4
25°	194.1	277.2	550.3	636.0	882.4	1081.9	1126.1	1152.9	1173.0	1175.7	1175.7
27.5°	174.1	249.0	544.9	638.7	906.5	1087.3	1122.1	1140.9	1150.2	1155.6	1155.6
30°	156.7	222.3	531.6	633.3	917.2	1081.9	1110.1	1119.4	1128.8	1136.8	1140.9
32.5°	143.3	196.8	511.5	622.6	918.5	1068.6	1088.6	1094.0	1107.4	1126.1	1132.8
35°	131.2	171.4	488.7	607.9	910.5	1047.1	1060.5	1065.9	1092.7	1120.8	1130.1
37.5°	119.2	152.6	459.3	582.4	898.4	1021.7	1031.1	1040.4	1081.9	1115.4	1126.1
40°	107.1	136.6	424.4	554.3	879.7	990.8	998.8	1013.6	1068.6	1107.4	1118.1
42.5°	97.7	123.2	387.0	524.9	855.6	956.0	968.0	989.5	1052.5	1094.0	1106.0
45°	89.7	109.8	346.8	484.7	824.8	919.8	937.3	966.7	1033.7	1073.9	1084.6
47.5°	81.7	100.4	305.3	443.2	791.3	883.7	906.5	939.9	1008.2	1047.1	1056.5
50°	75.0	91.0	263.8	399.0	755.2	844.9	871.6	906.5	976.1	1012.2	1024.4
52.5°	69.6	83.0	224.9	354.8	713.6	804.7	835.5	871.6	937.3	972.1	980.1
55°	64.3	76.3	191.5	308.0	670.8	761.9	795.3	830.1	894.4	923.9	929.2
57.5°	61.6	71.0	163.3	263.8	625.3	713.6	751.1	783.3	843.5	866.3	871.6
60°	57.6	66.9	141.9	226.3	575.7	668.1	700.3	732.4	783.3	802.0	806.0
62.5°	53.6	64.3	125.9	190.1	524.9	614.6	646.7	676.2	719.0	732.4	737.8
65°	50.9	61.6	113.8	163.3	472.6	558.3	590.5	615.9	650.7	664.1	666.8
67.5°	48.2	58.9	104.4	140.6	420.4	502.1	526.2	550.3	577.1	590.5	591.8
70°	44.2	56.2	96.4	124.5	366.9	437.8	457.9	483.4	504.8	511.5	515.5
72.5°	41.5	52.2	91.0	112.5	312.0	376.2	395.0	409.7	428.5	435.2	435.2
75°	37.5	46.9	85.7	100.4	255.7	308.0	324.0	338.7	353.5	356.2	352.1
77.5°	33.5	41.5	73.6	84.4	199.5	243.7	257.1	265.1	277.2	279.8	281.2
80°	28.1	36.2	57.6	65.6	144.6	179.4	188.8	195.5	206.2	206.2	208.9
82.5°	21.4	28.1	41.5	46.9	97.7	123.2	131.2	135.2	141.9	141.9	141.9
85°	13.4	17.4	26.8	30.8	58.9	75.0	80.3	81.7	87.0	88.4	88.4
87.5°	6.7	9.4	17.4	18.7	30.8	38.8	38.8	41.5	41.5	40.2	38.8
90°	7.0	12.5	18.0	19.4	30.4	45.3	52.7	46.8	35.1	26.3	26.3
92.5°	27.8	74.9	122.0	133.8	188.1	260.5	296.7	260.0	186.7	131.8	126.5
95°	66.6	152.8	239.0	260.6	462.8	732.5	867.3	773.9	587.2	447.1	431.2
97.5°	115.1	191.1	267.3	286.3	623.4	1073.0	1297.8	1238.8	1120.8	1032.2	1002.1
100°	152.5	221.5	290.5	307.8	681.9	1180.8	1430.2	1434.4	1443.1	1449.5	1413.6
102.5°	184.4	248.8	313.2	329.3	708.7	1214.6	1467.6	1542.7	1693.1	1805.9	1775.1
105°	238.5	293.0	347.5	361.2	728.6	1218.5	1463.5	1632.0	1969.0	2221.8	2205.2
107.5°	293.9	344.7	395.6	408.3	732.3	1164.2	1380.3	1615.4	2085.5	2438.1	2442.1
110°	331.3	377.2	423.1	434.6	726.7	1116.1	1310.9	1573.7	2099.4	2493.6	2510.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	368.1	411.9	455.6	466.6	726.9	1074.2	1247.8	1516.7	2054.7	2458.2	2484.7
115°	423.5	463.9	504.3	514.4	733.7	1026.1	1172.3	1431.4	1949.7	2338.3	2375.1
117.5°	478.4	515.0	551.6	560.8	747.3	995.9	1120.2	1354.1	1821.8	2172.6	2213.3
120°	510.2	544.8	579.2	587.9	758.4	985.7	1099.4	1313.1	1740.4	2061.0	2100.6
122.5°	541.5	576.3	611.1	619.7	774.3	980.5	1083.6	1276.0	1660.8	1949.4	1988.4
125°	589.2	621.0	652.7	660.6	795.9	976.1	1066.2	1229.7	1556.6	1801.8	1837.7
127.5°	628.0	660.1	692.1	700.2	817.4	973.6	1051.7	1192.0	1472.7	1683.2	1713.6
130°	648.8	683.4	717.8	726.5	833.0	975.0	1046.1	1171.0	1420.9	1608.3	1636.4
132.5°	670.4	704.9	739.4	748.0	845.8	976.1	1041.2	1153.1	1376.8	1544.5	1569.6
135°	702.2	733.6	765.1	772.9	859.6	975.2	1032.9	1126.6	1313.9	1454.4	1476.0
137.5°	734.8	766.0	797.1	804.9	880.4	981.2	1031.5	1110.7	1269.0	1387.8	1405.5
140°	761.9	790.5	819.2	826.3	893.1	982.1	1026.7	1095.1	1231.9	1334.5	1351.1
142.5°	782.6	809.2	835.7	842.3	903.8	985.7	1026.7	1086.8	1206.9	1297.1	1311.3
145°	814.5	837.6	860.8	866.6	917.6	985.7	1019.7	1068.9	1167.2	1240.9	1251.7
147.5°	846.5	869.0	891.5	897.1	938.0	992.5	1019.7	1058.4	1135.8	1193.8	1202.7
150°	867.3	887.6	907.9	913.0	948.6	996.0	1019.7	1052.4	1117.7	1166.7	1174.0
152.5°	888.7	904.1	919.6	923.4	955.5	998.3	1019.7	1047.6	1103.4	1145.2	1150.7
155°	920.6	932.1	943.4	946.3	970.7	1003.4	1019.7	1042.0	1086.3	1119.6	1123.3
157.5°	944.2	955.3	966.4	969.1	986.0	1008.5	1019.7	1037.0	1071.5	1097.4	1099.9
160°	960.1	968.8	977.4	979.6	993.0	1010.8	1019.7	1034.5	1064.1	1086.3	1087.7
162.5°	976.1	982.5	989.0	990.6	1000.4	1013.3	1019.7	1032.2	1057.1	1075.9	1077.3
165°	993.4	999.3	1005.2	1006.6	1011.0	1016.8	1019.7	1028.7	1046.6	1060.0	1061.4
167.5°	1009.4	1012.1	1014.9	1015.6	1019.3	1024.2	1026.7	1032.6	1044.3	1053.0	1053.6
170°	1019.7	1022.5	1025.3	1026.0	1026.2	1026.5	1026.7	1032.6	1044.3	1053.0	1053.0
172.5°	1025.3	1025.9	1026.5	1026.7	1026.7	1026.7	1026.7	1031.3	1040.5	1047.5	1047.0
175°	1032.9	1032.9	1032.9	1032.9	1030.9	1028.1	1026.7	1029.6	1035.5	1039.9	1039.9
177.5°	1032.9	1032.9	1032.9	1032.9	1031.3	1029.1	1028.0	1030.4	1035.0	1038.5	1037.8
180°	1032.9	1032.9	1032.9	1032.9	1032.9	1032.9	1032.9	1032.9	1032.9	1032.9	1032.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	416.4	416.4
2.5°	444.5	441.8
5°	571.7	574.4
7.5°	769.9	768.5
10°	957.3	969.4
12.5°	1094.0	1096.7
15°	1177.0	1182.4
17.5°	1209.1	1210.5
20°	1210.5	1207.8
22.5°	1195.8	1193.1
25°	1178.3	1177.0
27.5°	1162.3	1163.6
30°	1155.6	1159.6
32.5°	1155.6	1162.3
35°	1158.3	1165.0
37.5°	1156.9	1165.0
40°	1151.6	1160.9
42.5°	1136.8	1143.5
45°	1114.1	1122.1
47.5°	1084.6	1090.0
50°	1047.1	1052.5
52.5°	1000.2	1001.5
55°	943.9	949.3
57.5°	883.7	885.0
60°	816.7	820.8
62.5°	745.8	745.8
65°	670.8	673.5
67.5°	593.1	599.8
70°	514.1	515.5
72.5°	436.5	436.5
75°	356.2	357.5
77.5°	279.8	279.8
80°	207.5	208.9
82.5°	143.3	145.9
85°	89.7	89.7
87.5°	41.5	37.5
90°	26.3	26.3
92.5°	105.5	84.5
95°	367.8	304.3
97.5°	881.3	760.5
100°	1269.8	1125.9
102.5°	1651.8	1528.6
105°	2139.0	2072.8
107.5°	2458.1	2474.2
110°	2579.9	2648.8





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	2590.7	2696.7
115°	2522.0	2668.9
117.5°	2376.3	2539.3
120°	2259.0	2417.3
122.5°	2144.6	2300.8
125°	1981.6	2125.5
127.5°	1835.0	1956.4
130°	1748.6	1860.7
132.5°	1670.1	1770.5
135°	1562.6	1649.2
137.5°	1476.4	1547.3
140°	1417.3	1483.5
142.5°	1368.3	1425.3
145°	1294.8	1337.9
147.5°	1238.5	1274.2
150°	1203.0	1231.9
152.5°	1172.5	1194.4
155°	1137.7	1152.2
157.5°	1110.1	1120.2
160°	1093.6	1099.4
162.5°	1082.8	1088.4
165°	1067.3	1073.1
167.5°	1056.1	1058.6
170°	1053.0	1053.0
172.5°	1044.8	1042.7
175°	1039.9	1039.9
177.5°	1035.4	1032.9
180°	1032.9	1032.9



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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	2.42	3.17	3.51	4.26	5.76	15.59	16.34	16.68	17.43	18.93
	3H	3.12	3.79	4.22	4.89	6.40	17.42	18.08	18.51	19.18	20.70
	4H	3.41	4.05	4.52	5.15	6.67	18.05	18.69	19.16	19.79	21.31
	6H	3.66	4.24	4.78	5.35	6.88	18.47	19.06	19.59	20.16	21.69
	8H	3.72	4.28	4.84	5.40	6.93	18.59	19.14	19.71	20.26	21.79
	12H	3.74	4.27	4.86	5.38	6.93	18.65	19.18	19.77	20.29	21.84
4H	2H	9.62	10.25	10.73	11.35	12.88	15.85	16.49	16.97	17.59	19.11
	3H	11.18	11.71	12.30	12.83	14.37	17.88	18.41	19.00	19.54	21.07
	4H	11.27	11.75	12.39	12.87	14.42	18.64	19.13	19.76	20.24	21.80
	6H	11.27	11.69	12.40	12.83	14.37	19.17	19.59	20.30	20.73	22.27
	8H	11.24	11.64	12.38	12.77	14.33	19.32	19.72	20.46	20.85	22.41
	12H	11.19	11.55	12.34	12.69	14.26	19.41	19.76	20.56	20.91	22.48
8H	4H	12.70	13.09	13.83	14.22	15.78	18.69	19.08	19.82	20.21	21.78
	6H	12.93	13.26	14.09	14.43	15.99	19.31	19.63	20.46	20.81	22.37
	8H	12.95	13.23	14.11	14.39	15.97	19.52	19.81	20.68	20.96	22.54
	12H	12.91	13.16	14.08	14.31	15.93	19.66	19.91	20.82	21.06	22.67
12H	4H	12.83	13.19	13.98	14.33	15.90	18.64	18.99	19.79	20.14	21.70
	6H	13.19	13.47	14.35	14.63	16.21	19.29	19.57	20.45	20.73	22.31
	8H	13.25	13.50	14.42	14.65	16.27	19.51	19.76	20.68	20.91	22.53