

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: P938137

Luminaire Tested: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

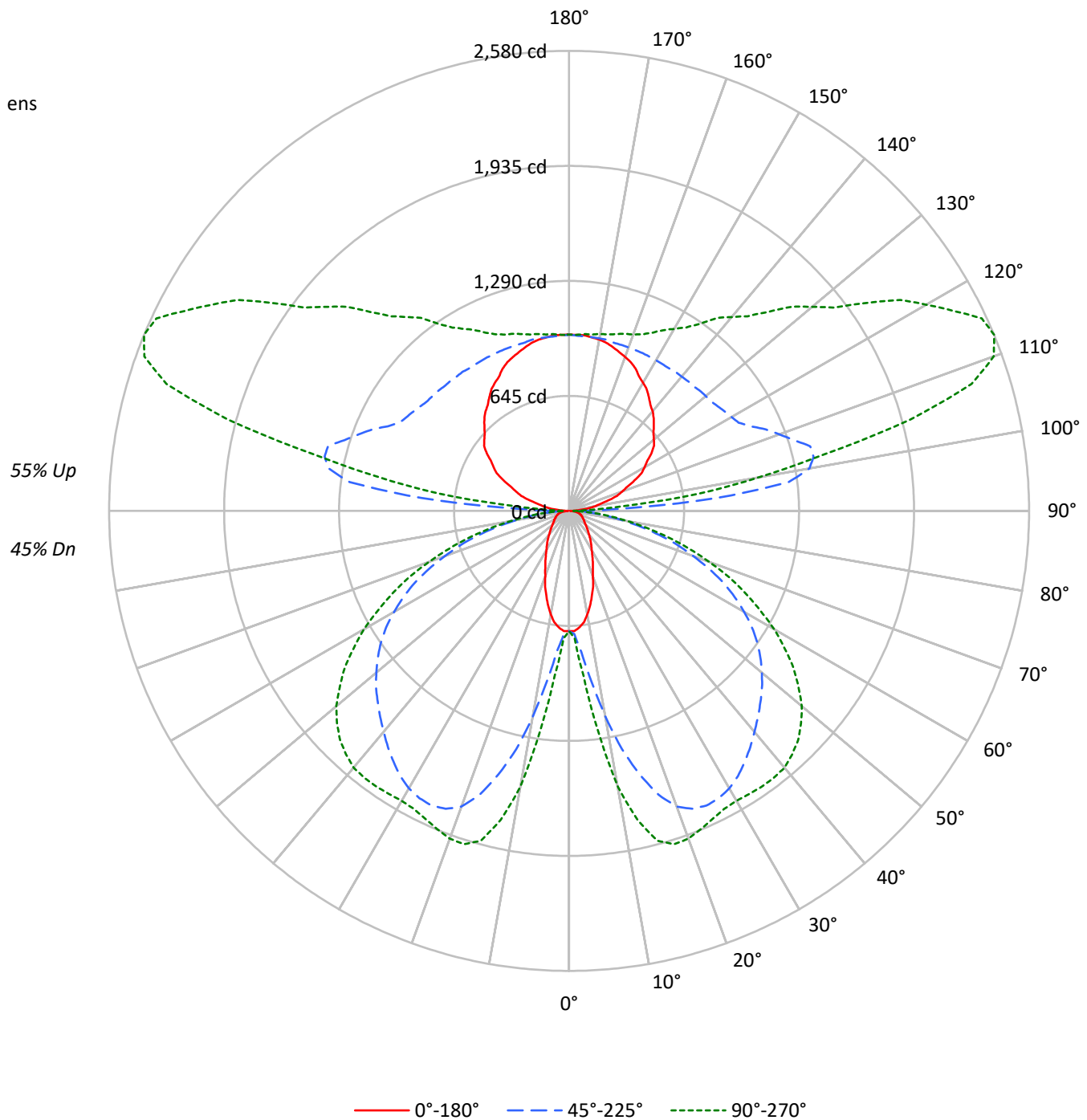
Test Method: LM-79-2019  
Report Number: P938137  
REPORT IS A COMBINATION OF REPORTS P933608 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11627.2 lumens  
Efficiency: N/A  
Efficacy: 103.1 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: General Diffuse  
  
Input Watts (W): 112.8  
Input Voltage (V): NR  
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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	84	88	84	81	77	70	67	65	57	55	53	45	44	42	37
2	87	79	73	68	79	73	67	63	61	56	53	49	46	44	39	37	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	27	23	21	18
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16	13
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	20	16	14	12
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12	10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	13	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4171	4171	4171
5°	4073	4820	5607
10°	3693	7024	9295
15°	3138	9175	11224
20°	2554	10629	11438
25°	2129	11120	11206
30°	1795	11187	11185
35°	1586	10999	11475
40°	1382	10755	11773
45°	1250	10574	11819
50°	1146	10412	11624
55°	1096	10176	11109
60°	1121	9724	10294
65°	1165	9040	9177
70°	1238	7879	7753
75°	1366	6418	6049
80°	1481	4446	4076
85°	1294	2355	2087

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11819 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	0.8
10°-20°	386.6	3.3
20°-30°	676.2	5.8
30°-40°	870.4	7.5
40°-50°	972.2	8.4
50°-60°	931.2	8.0
60°-70°	737.9	6.3
70°-80°	433.9	3.7
80°-90°	124.3	1.1
90°-100°	481.8	4.1
100°-110°	1266.6	10.9
110°-120°	1313.4	11.3
120°-130°	1053.5	9.1
130°-140°	826.6	7.1
140°-150°	634.5	5.5
150°-160°	456.9	3.9
160°-170°	279.6	2.4
170°-180°	94.5	0.8
0°-30°	1149.9	9.9
0°-40°	2020.4	17.4
0°-60°	3923.7	33.7
0°-90°	5219.9	44.9
90°-120°	3061.8	26.3
90°-150°	5576.3	48.0
90°-180°	6407.0	55.1
0°-180°	11627.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	657	705	794	898	930	61
15°	492	908	1531	1856	1914	137
25°	314	1030	1823	1904	1906	145
35°	212	984	1717	1815	1886	133
45°	145	785	1518	1739	1817	112
55°	104	499	1288	1496	1537	95
65°	82	264	956	1075	1091	82
75°	61	163	525	577	579	64
85°	22	50	130	143	145	23
90°	7	18	50	25	25	7
95°	64	249	830	428	291	71
105°	228	346	1400	2126	1983	242
115°	405	492	1122	2238	2554	400
125°	564	632	1020	1724	2034	501
135°	672	740	988	1392	1578	520
145°	779	829	976	1187	1280	488
155°	881	906	976	1071	1102	405
165°	951	963	976	1014	1027	268
175°	988	988	982	995	995	94
180°	988	988	988	988	988	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2
2.5°	674.2	674.2	678.6	680.7	685.1	687.3	691.6	695.9	708.9	711.1	715.5
5°	656.9	665.6	693.8	704.7	735.0	776.1	793.5	821.7	880.3	897.6	908.5
7.5°	630.9	650.4	719.8	737.1	813.0	921.4	967.0	1027.7	1120.9	1166.4	1203.3
10°	589.7	630.9	754.5	795.7	919.3	1084.1	1168.6	1253.2	1394.1	1457.0	1480.8
12.5°	544.2	611.4	791.3	847.7	1025.5	1266.2	1368.1	1461.2	1621.7	1706.3	1719.3
15°	492.1	583.2	826.0	908.5	1138.2	1417.9	1530.7	1645.6	1795.2	1855.8	1871.1
17.5°	446.6	561.5	858.6	945.3	1225.0	1554.5	1669.4	1764.8	1886.3	1927.4	1938.3
20°	390.3	526.8	880.3	993.0	1316.0	1654.3	1764.8	1838.5	1920.9	1946.9	1951.3
22.5°	349.1	490.0	893.2	1010.3	1376.8	1714.9	1808.2	1866.7	1923.1	1931.8	1933.9
25°	314.4	448.8	891.1	1029.8	1428.8	1751.8	1823.4	1866.7	1899.2	1903.6	1903.6
27.5°	281.9	403.2	882.4	1034.2	1467.8	1760.4	1816.8	1847.2	1862.3	1871.1	1871.1
30°	253.7	359.9	860.7	1025.5	1485.2	1751.8	1797.3	1812.5	1827.7	1840.7	1847.2
32.5°	232.0	318.7	828.2	1008.1	1487.3	1730.1	1762.7	1771.3	1793.0	1823.4	1834.2
35°	212.5	277.5	791.3	984.3	1474.3	1695.4	1717.1	1725.8	1769.2	1814.7	1829.9
37.5°	192.9	247.2	743.7	943.1	1454.8	1654.3	1669.4	1684.6	1751.8	1806.0	1823.4
40°	173.5	221.1	687.3	897.6	1424.4	1604.4	1617.4	1641.2	1730.1	1793.0	1810.3
42.5°	158.3	199.4	626.6	849.9	1385.4	1548.0	1567.5	1602.2	1704.1	1771.3	1790.9
45°	145.3	177.7	561.5	784.9	1335.5	1489.4	1517.6	1565.4	1673.7	1738.8	1756.2
47.5°	132.2	162.6	494.3	717.6	1281.4	1430.9	1467.8	1522.0	1632.6	1695.4	1710.6
50°	121.4	147.4	427.1	646.1	1222.8	1368.1	1411.4	1467.8	1580.6	1639.1	1658.5
52.5°	112.7	134.4	364.2	574.6	1155.5	1303.0	1352.9	1411.4	1517.6	1574.0	1587.1
55°	104.0	123.6	310.0	498.6	1086.2	1233.6	1287.9	1344.2	1448.3	1496.0	1504.6
57.5°	99.8	114.9	264.5	427.1	1012.5	1155.5	1216.3	1268.3	1365.9	1402.7	1411.4
60°	93.2	108.4	229.8	366.4	932.3	1081.8	1133.9	1186.0	1268.3	1298.7	1305.2
62.5°	86.7	104.0	203.8	307.8	849.9	995.1	1047.2	1094.9	1164.3	1186.0	1194.6
65°	82.4	99.8	184.3	264.5	765.3	904.1	956.1	997.3	1053.7	1075.3	1079.7
67.5°	78.1	95.4	169.1	227.6	680.7	813.0	852.1	891.1	934.4	956.1	958.3
70°	71.6	91.1	156.1	201.7	594.0	708.9	741.5	782.6	817.4	828.2	834.7
72.5°	67.2	84.6	147.4	182.1	505.1	609.2	639.6	663.4	693.8	704.7	704.7
75°	60.7	75.8	138.8	162.6	414.1	498.6	524.7	548.5	572.4	576.7	570.2
77.5°	54.2	67.2	119.2	136.6	323.0	394.6	416.3	429.3	448.8	453.1	455.3
80°	45.5	58.5	93.2	106.3	234.1	290.5	305.7	316.5	333.9	333.9	338.2
82.5°	34.7	45.5	67.2	75.8	158.3	199.4	212.5	219.0	229.8	229.8	229.8
85°	21.7	28.2	43.4	49.9	95.4	121.4	130.1	132.2	140.9	143.1	143.1
87.5°	10.8	15.2	28.2	30.3	49.9	62.9	62.9	67.2	67.2	65.1	62.9
90°	6.7	12.0	17.3	18.5	29.1	43.3	50.4	44.8	33.6	25.2	25.2
92.5°	26.6	71.7	116.8	128.0	180.0	249.2	283.9	248.8	178.7	126.1	121.0
95°	63.7	146.2	228.7	249.4	442.9	700.9	829.9	740.5	561.8	427.8	412.6
97.5°	110.1	182.9	255.7	273.9	596.5	1026.7	1241.8	1185.4	1072.4	987.7	958.8
100°	146.0	212.0	278.0	294.5	652.5	1129.8	1368.5	1372.6	1380.9	1387.0	1352.6
102.5°	176.5	238.0	299.7	315.1	678.2	1162.2	1404.3	1476.2	1620.1	1728.0	1698.5
105°	228.2	280.4	332.5	345.6	697.1	1166.0	1400.3	1561.6	1884.1	2126.0	2110.1
107.5°	281.3	329.9	378.5	390.7	700.7	1114.0	1320.7	1545.7	1995.6	2333.0	2336.8
110°	317.1	361.0	404.9	415.9	695.3	1068.0	1254.4	1505.8	2008.8	2386.1	2402.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	352.2	394.1	435.9	446.5	695.6	1027.9	1194.0	1451.3	1966.1	2352.2	2377.6
115°	405.3	443.9	482.6	492.2	702.1	981.8	1121.7	1369.7	1865.6	2237.5	2272.7
117.5°	457.7	492.8	527.9	536.6	715.1	953.0	1071.9	1295.7	1743.3	2078.9	2117.9
120°	488.2	521.3	554.2	562.5	725.7	943.2	1052.0	1256.5	1665.4	1972.1	2010.0
122.5°	518.1	551.4	584.7	593.0	741.0	938.2	1036.8	1221.0	1589.2	1865.3	1902.7
125°	563.8	594.2	624.5	632.1	761.5	934.0	1020.3	1176.6	1489.4	1724.1	1758.5
127.5°	601.0	631.6	662.3	670.0	782.1	931.6	1006.3	1140.6	1409.2	1610.6	1639.7
130°	620.9	653.9	686.9	695.2	797.1	933.0	1001.0	1120.5	1359.6	1539.0	1565.8
132.5°	641.5	674.5	707.5	715.8	809.3	934.0	996.3	1103.4	1317.4	1477.9	1501.9
135°	671.9	702.0	732.1	739.6	822.5	933.1	988.4	1078.0	1257.3	1391.7	1412.4
137.5°	703.1	732.9	762.7	770.2	842.4	938.9	987.0	1062.8	1214.3	1328.0	1344.9
140°	729.0	756.4	783.8	790.7	854.6	939.8	982.4	1047.8	1178.8	1276.9	1292.8
142.5°	748.9	774.3	799.6	806.0	864.8	943.2	982.4	1039.9	1154.9	1241.1	1254.8
145°	779.4	801.5	823.6	829.2	878.0	943.2	975.8	1022.8	1116.9	1187.4	1197.7
147.5°	810.0	831.5	853.0	858.4	897.5	949.7	975.8	1012.7	1086.8	1142.3	1150.9
150°	829.9	849.3	868.7	873.6	907.7	953.0	975.8	1007.0	1069.5	1116.4	1123.3
152.5°	850.4	865.1	879.9	883.6	914.3	955.3	975.8	1002.4	1055.8	1095.8	1101.1
155°	880.9	891.9	902.7	905.5	928.9	960.1	975.8	997.0	1039.5	1071.3	1074.8
157.5°	903.5	914.1	924.7	927.3	943.5	965.0	975.8	992.2	1025.3	1050.1	1052.5
160°	918.7	927.0	935.3	937.3	950.1	967.2	975.8	989.9	1018.2	1039.5	1040.8
162.5°	934.0	940.1	946.4	947.9	957.2	969.6	975.8	987.7	1011.5	1029.5	1030.8
165°	950.6	956.2	961.8	963.2	967.4	972.9	975.8	984.3	1001.5	1014.3	1015.6
167.5°	965.8	968.5	971.1	971.8	975.3	980.0	982.4	988.1	999.2	1007.6	1008.2
170°	975.8	978.4	981.1	981.7	982.0	982.2	982.4	988.1	999.2	1007.6	1007.6
172.5°	981.1	981.6	982.2	982.4	982.4	982.4	982.4	986.9	995.7	1002.3	1001.8
175°	988.4	988.4	988.4	988.4	986.4	983.8	982.4	985.2	990.9	995.1	995.1
177.5°	988.4	988.4	988.4	988.4	986.9	984.7	983.7	985.9	990.4	993.7	993.1
180°	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	674.2	674.2
2.5°	719.8	715.5
5°	925.8	930.1
7.5°	1246.7	1244.5
10°	1550.2	1569.7
12.5°	1771.3	1775.6
15°	1905.7	1914.4
17.5°	1957.7	1960.0
20°	1960.0	1955.6
22.5°	1936.1	1931.8
25°	1907.9	1905.7
27.5°	1881.9	1884.0
30°	1871.1	1877.5
32.5°	1871.1	1881.9
35°	1875.4	1886.3
37.5°	1873.2	1886.3
40°	1864.6	1879.7
42.5°	1840.7	1851.6
45°	1803.8	1816.8
47.5°	1756.2	1764.8
50°	1695.4	1704.1
52.5°	1619.5	1621.7
55°	1528.5	1537.2
57.5°	1430.9	1433.1
60°	1322.5	1329.0
62.5°	1207.7	1207.7
65°	1086.2	1090.6
67.5°	960.5	971.3
70°	832.5	834.7
72.5°	706.8	706.8
75°	576.7	578.8
77.5°	453.1	453.1
80°	336.0	338.2
82.5°	232.0	236.3
85°	145.3	145.3
87.5°	67.2	60.7
90°	25.2	25.2
92.5°	101.0	80.9
95°	351.9	291.2
97.5°	843.3	727.7
100°	1215.0	1077.3
102.5°	1580.6	1462.7
105°	2046.7	1983.4
107.5°	2352.1	2367.5
110°	2468.6	2534.6





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	2478.9	2580.4
115°	2413.3	2553.8
117.5°	2273.9	2429.8
120°	2161.5	2313.1
122.5°	2052.1	2201.6
125°	1896.2	2033.8
127.5°	1755.8	1872.0
130°	1673.2	1780.4
132.5°	1598.1	1694.2
135°	1495.2	1578.1
137.5°	1412.7	1480.5
140°	1356.2	1419.6
142.5°	1309.3	1363.9
145°	1239.0	1280.3
147.5°	1185.1	1219.3
150°	1151.1	1178.8
152.5°	1122.0	1142.9
155°	1088.7	1102.5
157.5°	1062.2	1071.9
160°	1046.5	1052.0
162.5°	1036.1	1041.4
165°	1021.3	1026.8
167.5°	1010.5	1012.9
170°	1007.6	1007.6
172.5°	999.8	997.7
175°	995.1	995.1
177.5°	990.8	988.4
180°	988.4	988.4



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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	5.48	6.33	6.47	7.34	8.68	18.64	19.49	19.63	20.50	21.84
	3H	6.18	6.95	7.19	7.96	9.32	20.48	21.24	21.48	22.26	23.62
	4H	6.48	7.20	7.50	8.23	9.59	21.12	21.84	22.13	22.86	24.23
	6H	6.73	7.40	7.76	8.42	9.80	21.54	22.21	22.57	23.24	24.62
	8H	6.80	7.43	7.83	8.48	9.85	21.66	22.30	22.69	23.34	24.72
	12H	6.82	7.42	7.85	8.46	9.86	21.73	22.33	22.76	23.37	24.77
4H	2H	12.68	13.41	13.71	14.43	15.80	18.92	19.64	19.94	20.66	22.03
	3H	14.25	14.86	15.28	15.91	17.29	20.96	21.56	21.99	22.61	23.99
	4H	14.34	14.90	15.38	15.94	17.35	21.72	22.28	22.76	23.32	24.72
	6H	14.36	14.83	15.40	15.90	17.30	22.25	22.73	23.30	23.80	25.20
	8H	14.33	14.78	15.38	15.84	17.25	22.41	22.86	23.46	23.92	25.33
	12H	14.29	14.69	15.36	15.77	17.19	22.50	22.91	23.57	23.98	25.40
8H	4H	15.79	16.23	16.84	17.29	18.71	21.78	22.23	22.83	23.28	24.70
	6H	16.03	16.40	17.10	17.50	18.91	22.40	22.77	23.48	23.87	25.29
	8H	16.05	16.37	17.13	17.45	18.89	22.62	22.95	23.70	24.03	25.46
	12H	16.01	16.30	17.10	17.38	18.85	22.76	23.05	23.85	24.13	25.60
12H	4H	15.93	16.33	17.00	17.40	18.83	21.73	22.14	22.80	23.21	24.63
	6H	16.28	16.61	17.37	17.69	19.13	22.39	22.71	23.47	23.80	25.23
	8H	16.35	16.64	17.44	17.72	19.19	22.61	22.90	23.70	23.98	25.45