

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: P936526

Luminaire Tested: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

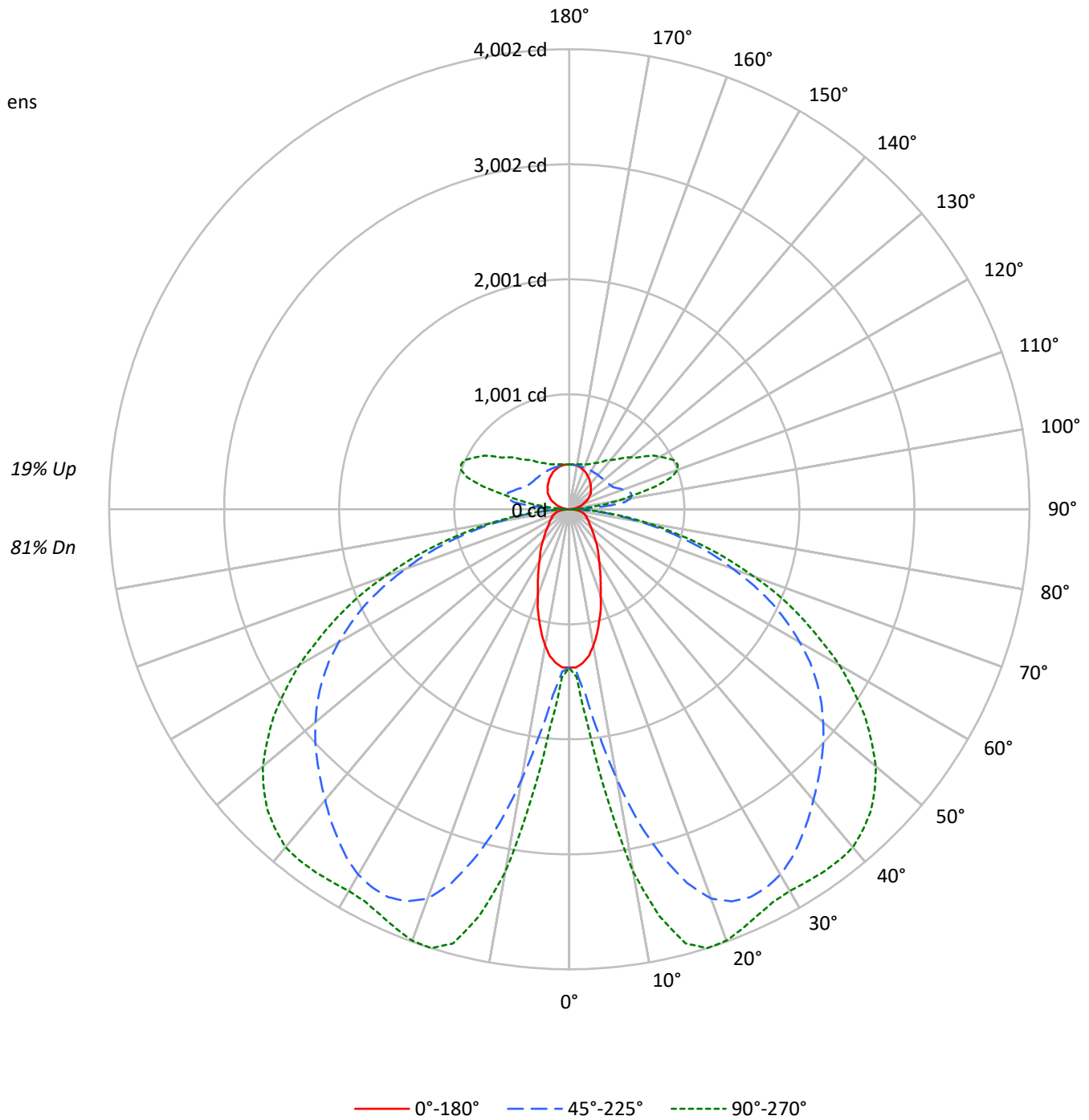
Test Method: LM-79-2019  
Report Number: P936526  
REPORT IS A COMBINATION OF REPORTS P933432 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13183.4 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 148.8  
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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### 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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	84	84	84	81
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	70	70	70	70	66
2	94	85	78	72	89	82	75	70	75	70	66	69	65	61	63	60	57	57	57	57	54
3	85	74	66	59	81	71	64	58	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	47	43	49	44	40	40	40	40	37
5	71	58	49	42	67	55	47	41	51	44	39	47	41	36	43	38	34	34	34	34	32
6	65	51	42	36	62	49	41	35	46	39	33	42	36	31	39	34	30	30	30	30	27
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26	26	26	26	24
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23	23	23	23	21
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

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

	0°	45°	90°
0°	4259	4259	4259
5°	4162	4923	5724
10°	3777	7178	9490
15°	3211	9381	11459
20°	2615	10873	11678
25°	2182	11381	11441
30°	1841	11456	11419
35°	1629	11269	11715
40°	1420	11025	12020
45°	1287	10847	12067
50°	1181	10687	11867
55°	1132	10453	11341
60°	1161	9998	10511
65°	1209	9305	9369
70°	1292	8120	7915
75°	1436	6627	6177
80°	1582	4602	4163
85°	1435	2446	2130

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12067 cd/sqm



TEST NUMBER: P936526

CATALOG NUMBER: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-12-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.1	1.4
10°-20°	789.3	6.0
20°-30°	1380.7	10.5
30°-40°	1777.3	13.5
40°-50°	1985.2	15.1
50°-60°	1901.4	14.4
60°-70°	1506.8	11.4
70°-80°	886.1	6.7
80°-90°	247.7	1.9
90°-100°	190.3	1.4
100°-110°	500.3	3.8
110°-120°	518.8	3.9
120°-130°	416.1	3.2
130°-140°	326.5	2.5
140°-150°	250.6	1.9
150°-160°	180.5	1.4
160°-170°	110.4	0.8
170°-180°	37.3	0.3
0°-30°	2348.1	17.8
0°-40°	4125.4	31.3
0°-60°	8012.0	60.8
0°-90°	10652.5	80.8
90°-120°	1209.4	9.2
90°-150°	2202.7	16.7
90°-180°	2531.0	19.2
0°-180°	13183.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1341	1439	1620	1833	1899	124
15°	1005	1855	3126	3790	3909	280
25°	642	2103	3723	3887	3891	296
35°	434	2010	3506	3705	3852	271
45°	297	1603	3099	3550	3710	229
55°	212	1018	2630	3055	3139	194
65°	168	540	1952	2196	2227	167
75°	124	332	1071	1178	1182	130
85°	44	102	266	292	297	47
90°	3	7	20	10	10	5
95°	25	98	328	169	115	28
105°	90	136	553	840	783	96
115°	160	194	443	884	1009	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	328	385	469	506	193
155°	348	358	385	423	436	160
165°	376	380	385	401	406	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1376.9	1376.9	1385.7	1390.1	1398.9	1403.4	1412.3	1421.1	1447.7	1452.1	1460.9
5°	1341.4	1359.1	1416.6	1438.8	1500.8	1584.9	1620.3	1677.9	1797.3	1832.8	1854.9
7.5°	1288.3	1328.1	1469.8	1505.2	1660.2	1881.5	1974.5	2098.5	2288.8	2381.8	2457.0
10°	1204.2	1288.3	1540.6	1624.7	1877.1	2213.5	2386.1	2558.8	2846.6	2974.9	3023.7
12.5°	1111.2	1248.4	1615.9	1731.0	2094.0	2585.4	2793.5	2983.8	3311.5	3484.1	3510.6
15°	1004.9	1190.8	1686.7	1854.9	2324.2	2895.3	3125.5	3360.1	3665.6	3789.6	3820.6
17.5°	912.0	1146.6	1753.1	1930.2	2501.3	3174.2	3408.9	3603.6	3851.5	3935.7	3957.8
20°	796.9	1075.7	1797.3	2027.6	2687.3	3377.8	3603.6	3754.1	3922.4	3975.5	3984.3
22.5°	712.7	1000.5	1823.9	2063.0	2811.2	3501.8	3692.2	3811.7	3926.8	3944.5	3948.9
25°	641.9	916.4	1819.5	2102.8	2917.4	3577.1	3723.1	3811.7	3878.1	3886.9	3886.9
27.5°	575.5	823.5	1801.8	2111.7	2997.1	3594.8	3709.9	3771.8	3802.9	3820.6	3820.6
30°	518.0	734.9	1757.5	2094.0	3032.5	3577.1	3670.0	3701.0	3732.0	3758.6	3771.8
32.5°	473.7	650.8	1691.1	2058.6	3036.9	3532.8	3599.2	3616.9	3661.1	3723.1	3745.3
35°	433.8	566.6	1615.9	2009.9	3010.4	3462.0	3506.2	3524.0	3612.5	3705.4	3736.4
37.5°	394.0	504.6	1518.5	1925.8	2970.6	3377.8	3408.9	3439.8	3577.1	3687.7	3723.1
40°	354.1	451.5	1403.4	1832.8	2908.6	3276.1	3302.6	3351.3	3532.8	3661.1	3696.6
42.5°	323.2	407.3	1279.4	1735.4	2828.9	3160.9	3200.8	3271.6	3479.7	3616.9	3656.8
45°	296.6	363.0	1146.6	1602.6	2727.0	3041.4	3098.9	3196.4	3417.7	3550.5	3585.9
47.5°	270.1	332.1	1009.4	1465.4	2616.4	2921.8	2997.1	3107.8	3333.6	3462.0	3492.9
50°	247.9	301.0	872.1	1319.3	2496.9	2793.5	2882.0	2997.1	3227.3	3346.9	3386.7
52.5°	230.2	274.5	743.8	1173.1	2359.6	2660.7	2762.5	2882.0	3098.9	3214.1	3240.6
55°	212.5	252.4	633.1	1018.2	2217.9	2519.0	2629.7	2744.8	2957.2	3054.6	3072.4
57.5°	203.6	234.7	540.1	872.1	2067.4	2359.6	2483.6	2589.9	2789.0	2864.3	2882.0
60°	190.4	221.3	469.2	748.2	1903.7	2209.1	2315.3	2421.6	2589.9	2651.8	2665.1
62.5°	177.1	212.5	416.1	628.6	1735.4	2032.0	2138.2	2235.6	2377.3	2421.6	2439.3
65°	168.2	203.6	376.3	540.1	1562.8	1846.1	1952.3	2036.5	2151.6	2195.8	2204.7
67.5°	159.4	194.8	345.3	464.9	1390.1	1660.2	1739.8	1819.5	1908.1	1952.3	1956.8
70°	146.1	185.9	318.7	411.7	1213.0	1447.7	1514.0	1598.2	1669.0	1691.1	1704.4
72.5°	137.3	172.7	301.0	371.8	1031.5	1244.0	1306.0	1354.7	1416.6	1438.8	1438.8
75°	123.9	155.0	283.3	332.1	845.5	1018.2	1071.4	1120.0	1168.7	1177.6	1164.3
77.5°	110.7	137.3	243.5	278.9	659.6	805.8	850.0	876.6	916.4	925.2	929.7
80°	93.0	119.6	190.4	217.0	478.1	593.2	624.2	646.4	681.8	681.8	690.7
82.5°	70.8	93.0	137.3	155.0	323.2	407.3	433.8	447.1	469.2	469.2	469.2
85°	44.3	57.6	88.5	101.9	194.8	247.9	265.6	270.1	287.8	292.2	292.2
87.5°	22.1	31.0	57.6	62.0	101.9	128.4	128.4	137.3	137.3	132.8	128.4
90°	2.6	4.7	6.8	7.3	11.5	17.1	19.9	17.7	13.3	9.9	9.9
92.5°	10.5	28.3	46.1	50.6	71.1	98.5	112.1	98.3	70.5	49.8	47.8
95°	25.1	57.7	90.3	98.5	174.9	276.9	327.8	292.5	221.9	169.0	163.0
97.5°	43.5	72.3	101.1	108.2	235.6	405.6	490.5	468.2	423.6	390.1	378.7
100°	57.6	83.7	109.8	116.3	257.8	446.3	540.6	542.2	545.5	547.9	534.3
102.5°	69.7	94.0	118.3	124.4	267.9	459.1	554.7	583.1	639.9	682.5	670.9
105°	90.2	110.7	131.3	136.5	275.4	460.5	553.1	616.8	744.2	839.8	833.5
107.5°	111.1	130.3	149.6	154.4	276.8	440.0	521.7	610.5	788.2	921.6	923.0
110°	125.2	142.6	159.9	164.3	274.7	421.9	495.5	594.8	793.5	942.5	949.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	139.2	155.7	172.2	176.3	274.8	406.0	471.7	573.4	776.6	929.2	939.2
115°	160.1	175.4	190.6	194.5	277.3	387.8	443.1	541.0	736.9	883.8	897.7
117.5°	180.8	194.6	208.5	212.0	282.5	376.5	423.5	511.9	688.6	821.2	836.6
120°	192.8	205.9	219.0	222.2	286.6	372.5	415.5	496.3	657.9	779.0	794.0
122.5°	204.7	217.8	230.9	234.2	292.7	370.5	409.5	482.2	627.7	736.8	751.5
125°	222.7	234.8	246.8	249.8	300.9	369.0	403.0	464.7	588.3	681.0	694.6
127.5°	237.4	249.5	261.6	264.7	309.0	368.0	397.5	450.5	556.6	636.1	647.7
130°	245.2	258.3	271.4	274.6	314.9	368.5	395.4	442.6	537.1	607.9	618.5
132.5°	253.4	266.4	279.5	282.7	319.7	369.0	393.5	435.8	520.4	583.8	593.3
135°	265.4	277.3	289.2	292.1	324.9	368.6	390.4	425.8	496.6	549.7	557.9
137.5°	277.7	289.5	301.2	304.2	332.8	370.9	389.9	419.8	479.6	524.5	531.2
140°	287.9	298.8	309.7	312.4	337.6	371.2	388.1	413.9	465.6	504.4	510.7
142.5°	295.8	305.8	315.9	318.4	341.6	372.5	388.1	410.7	456.2	490.3	495.7
145°	307.9	316.6	325.4	327.5	346.8	372.5	385.4	404.0	441.2	469.0	473.1
147.5°	319.9	328.4	337.0	339.0	354.5	375.1	385.4	400.1	429.3	451.2	454.6
150°	327.8	335.5	343.1	345.1	358.5	376.5	385.4	397.8	422.5	441.0	443.7
152.5°	335.9	341.8	347.5	349.0	361.1	377.3	385.4	396.0	417.1	432.9	435.0
155°	347.9	352.2	356.6	357.6	366.9	379.2	385.4	393.8	410.6	423.2	424.6
157.5°	356.8	361.0	365.3	366.3	372.7	381.2	385.4	392.0	405.0	414.7	415.7
160°	362.9	366.2	369.5	370.3	375.3	382.0	385.4	391.0	402.2	410.6	411.1
162.5°	369.0	371.4	373.8	374.5	378.1	383.0	385.4	390.1	399.6	406.6	407.2
165°	375.5	377.7	379.9	380.5	382.1	384.3	385.4	388.8	395.6	400.6	401.1
167.5°	381.5	382.6	383.6	383.9	385.3	387.1	388.1	390.2	394.7	398.0	398.3
170°	385.4	386.5	387.5	387.8	387.9	388.0	388.1	390.2	394.7	398.0	398.0
172.5°	387.5	387.8	388.0	388.1	388.1	388.1	388.1	389.8	393.3	395.9	395.7
175°	390.4	390.4	390.4	390.4	389.6	388.6	388.1	389.2	391.4	393.0	393.0
177.5°	390.4	390.4	390.4	390.4	389.8	389.0	388.6	389.5	391.2	392.5	392.2
180°	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4	390.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	1376.9	1376.9
2.5°	1469.8	1460.9
5°	1890.4	1899.2
7.5°	2545.6	2541.1
10°	3165.3	3205.2
12.5°	3616.9	3625.7
15°	3891.4	3909.1
17.5°	3997.7	4002.0
20°	4002.0	3993.2
22.5°	3953.4	3944.5
25°	3895.8	3891.4
27.5°	3842.7	3847.2
30°	3820.6	3833.8
32.5°	3820.6	3842.7
35°	3829.4	3851.5
37.5°	3825.0	3851.5
40°	3807.3	3838.3
42.5°	3758.6	3780.7
45°	3683.3	3709.9
47.5°	3585.9	3603.6
50°	3462.0	3479.7
52.5°	3307.0	3311.5
55°	3121.1	3138.8
57.5°	2921.8	2926.3
60°	2700.5	2713.8
62.5°	2465.9	2465.9
65°	2217.9	2226.8
67.5°	1961.2	1983.4
70°	1700.0	1704.4
72.5°	1443.2	1443.2
75°	1177.6	1182.0
77.5°	925.2	925.2
80°	686.2	690.7
82.5°	473.7	482.6
85°	296.6	296.6
87.5°	137.3	123.9
90°	9.9	9.9
92.5°	39.9	32.0
95°	139.0	115.0
97.5°	333.1	287.4
100°	480.0	425.6
102.5°	624.3	577.7
105°	808.5	783.4
107.5°	929.2	935.2
110°	975.1	1001.2





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	979.2	1019.2
115°	953.2	1008.8
117.5°	898.2	959.8
120°	853.8	913.6
122.5°	810.6	869.7
125°	748.9	803.3
127.5°	693.5	739.4
130°	660.9	703.3
132.5°	631.3	669.2
135°	590.6	623.3
137.5°	558.0	584.9
140°	535.7	560.7
142.5°	517.2	538.7
145°	489.4	505.7
147.5°	468.1	481.6
150°	454.7	465.6
152.5°	443.2	451.5
155°	430.0	435.5
157.5°	419.6	423.5
160°	413.3	415.5
162.5°	409.2	411.3
165°	403.4	405.6
167.5°	399.1	400.1
170°	398.0	398.0
172.5°	394.9	394.1
175°	393.0	393.0
177.5°	391.4	390.4
180°	390.4	390.4



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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	8.47	9.77	9.10	10.42	11.17	21.66	22.96	22.29	23.61	24.36
	3H	9.20	10.38	9.85	11.04	11.82	23.54	24.71	24.18	25.37	26.16
	4H	9.52	10.64	10.19	11.31	12.10	24.20	25.32	24.87	25.99	26.78
	6H	9.80	10.83	10.47	11.51	12.32	24.66	25.69	25.34	26.38	27.19
	8H	9.88	10.86	10.57	11.57	12.38	24.80	25.78	25.49	26.49	27.30
	12H	9.91	10.85	10.60	11.55	12.39	24.88	25.83	25.58	26.52	27.37
4H	2H	15.74	16.86	16.41	17.53	18.32	21.98	23.10	22.65	23.77	24.56
	3H	17.35	18.28	18.03	18.99	19.81	24.07	25.01	24.76	25.72	26.53
	4H	17.46	18.31	18.16	19.03	19.87	24.86	25.72	25.56	26.43	27.27
	6H	17.50	18.24	18.22	18.98	19.83	25.43	26.18	26.15	26.91	27.77
	8H	17.49	18.18	18.21	18.92	19.78	25.61	26.31	26.33	27.04	27.91
	12H	17.47	18.09	18.21	18.85	19.72	25.73	26.36	26.47	27.12	27.99
8H	4H	18.95	19.64	19.67	20.38	21.24	24.96	25.66	25.68	26.39	27.26
	6H	19.21	19.79	19.96	20.57	21.44	25.62	26.20	26.37	26.97	27.84
	8H	19.24	19.75	20.00	20.53	21.41	25.85	26.36	26.61	27.14	28.02
	12H	19.23	19.68	19.99	20.45	21.39	26.01	26.47	26.78	27.24	28.18
12H	4H	19.12	19.74	19.86	20.50	21.37	24.94	25.56	25.68	26.32	27.20
	6H	19.48	19.99	20.24	20.77	21.66	25.61	26.12	26.37	26.90	27.78
	8H	19.57	20.02	20.34	20.79	21.74	25.86	26.32	26.63	27.09	28.03