

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: PrentaLux

Report Number: P1057289

Luminaire Tested: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057289
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2, G2-2504-407-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, MEDIUM OPTIC (23-DEGREES)
UPLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

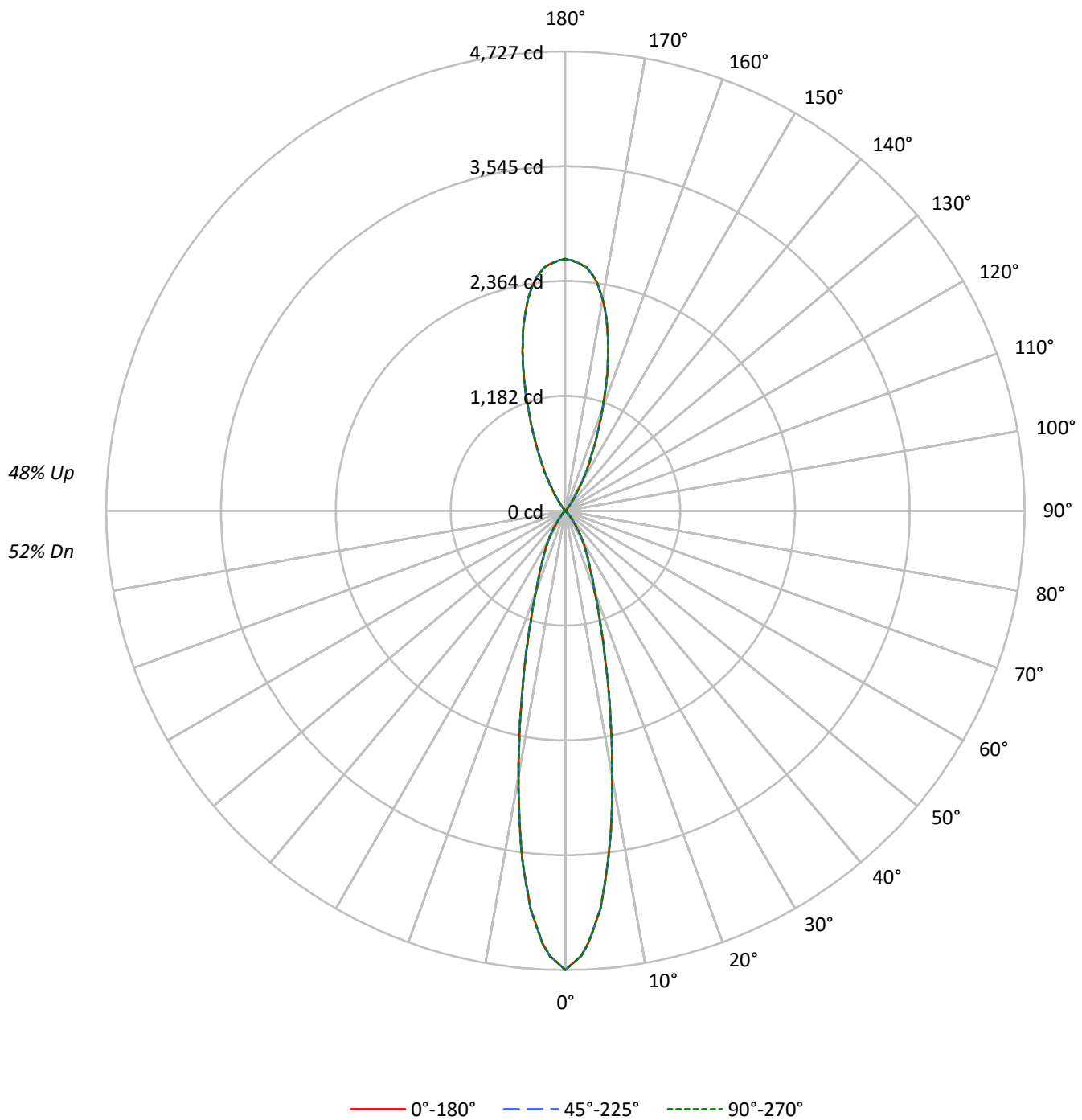
Lumens per Lamp: N/A
Luminaire Lumens: 2303.3 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 17.9
Input Voltage (V): 120
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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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057289

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58
1	101	98	95	93	94	91	89	87	78	77	75	66	66	65	56	55	55
2	95	90	85	82	88	84	80	77	73	70	68	63	61	60	53	52	52
3	90	83	78	73	83	78	73	70	68	65	63	60	57	56	51	50	49
4	85	77	71	67	79	72	67	64	64	61	58	57	54	52	49	48	47
5	80	71	66	61	75	68	63	59	60	57	54	54	51	49	48	46	44
6	76	67	61	57	71	64	58	55	57	53	50	51	49	46	46	44	43
7	72	63	57	53	68	60	55	51	54	50	48	49	46	44	44	42	41
8	69	59	54	50	65	57	52	48	52	48	45	47	44	42	43	41	39
9	65	56	51	47	62	54	49	45	49	46	43	45	42	40	41	39	38
10	63	53	48	44	59	51	46	43	47	43	41	43	41	39	40	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3046043	3046043	3046043
5°	2660946	2660946	2660946
10°	1815066	1815066	1815066
15°	1057770	1057770	1057770
20°	602729	602729	602729
25°	390076	390076	390076
30°	257984	257984	257984
35°	135547	135547	135547
40°	52577	52577	52577
45°	17042	17042	17042
50°	8822	8822	8822
55°	6179	6179	6179
60°	4253	4253	4253
65°	3355	3355	3355
70°	2073	2073	2073
75°	2739	2739	2739
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17042 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.9	15.1
10°-20°	446.4	19.4
20°-30°	257.7	11.2
30°-40°	112.8	4.9
40°-50°	19.1	0.8
50°-60°	5.0	0.2
60°-70°	2.4	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.4	0.0
110°-120°	1.9	0.1
120°-130°	5.0	0.2
130°-140°	14.8	0.6
140°-150°	93.4	4.1
150°-160°	303.5	13.2
160°-170°	462.1	20.1
170°-180°	230.0	10.0
0°-30°	1052.1	45.7
0°-40°	1164.8	50.6
0°-60°	1189.0	51.6
0°-90°	1192.1	51.8
90°-120°	2.3	0.1
90°-150°	115.5	5.0
90°-180°	1111.0	48.2
0°-180°	2303.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4727	4727	4727	4727	4727	
5°	4114	4114	4114	4114	4114	348
15°	1586	1586	1586	1586	1586	446
25°	549	549	549	549	549	258
35°	172	172	172	172	172	113
45°	19	19	19	19	19	19
55°	6	6	6	6	6	5
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	2	2	2	2	2	2
125°	6	6	6	6	6	5
135°	16	16	16	16	16	15
145°	134	134	134	134	134	93
155°	650	650	650	650	650	303
165°	1704	1704	1704	1704	1704	462
175°	2514	2514	2514	2514	2514	230
180°	2593	2593	2593	2593	2593	

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4726.8	4726.8	4726.8	4726.8	4726.8
1°	4656.2	4656.2	4656.2	4656.2	4656.2
2°	4585.5	4585.5	4585.5	4585.5	4585.5
3°	4462.8	4462.8	4462.8	4462.8	4462.8
4°	4288.2	4288.2	4288.2	4288.2	4288.2
5°	4113.5	4113.5	4113.5	4113.5	4113.5
6°	3866.4	3866.4	3866.4	3866.4	3866.4
7°	3619.3	3619.3	3619.3	3619.3	3619.3
8°	3351.4	3351.4	3351.4	3351.4	3351.4
9°	3062.6	3062.6	3062.6	3062.6	3062.6
10°	2773.8	2773.8	2773.8	2773.8	2773.8
11°	2511.3	2511.3	2511.3	2511.3	2511.3
12°	2248.9	2248.9	2248.9	2248.9	2248.9
13°	2011.2	2011.2	2011.2	2011.2	2011.2
14°	1798.3	1798.3	1798.3	1798.3	1798.3
15°	1585.5	1585.5	1585.5	1585.5	1585.5
16°	1420.5	1420.5	1420.5	1420.5	1420.5
17°	1255.4	1255.4	1255.4	1255.4	1255.4
18°	1114.1	1114.1	1114.1	1114.1	1114.1
19°	996.5	996.5	996.5	996.5	996.5
20°	878.9	878.9	878.9	878.9	878.9
21°	801.2	801.2	801.2	801.2	801.2
22°	723.5	723.5	723.5	723.5	723.5
23°	657.5	657.5	657.5	657.5	657.5
24°	603.0	603.0	603.0	603.0	603.0
25°	548.6	548.6	548.6	548.6	548.6
26°	506.5	506.5	506.5	506.5	506.5
27°	464.3	464.3	464.3	464.3	464.3
28°	424.0	424.0	424.0	424.0	424.0
29°	385.3	385.3	385.3	385.3	385.3
30°	346.7	346.7	346.7	346.7	346.7
31°	310.3	310.3	310.3	310.3	310.3
32°	273.9	273.9	273.9	273.9	273.9
33°	239.0	239.0	239.0	239.0	239.0
34°	205.6	205.6	205.6	205.6	205.6
35°	172.3	172.3	172.3	172.3	172.3
36°	146.8	146.8	146.8	146.8	146.8
37°	121.4	121.4	121.4	121.4	121.4
38°	99.4	99.4	99.4	99.4	99.4
39°	81.0	81.0	81.0	81.0	81.0
40°	62.5	62.5	62.5	62.5	62.5
41°	51.6	51.6	51.6	51.6	51.6
42°	40.6	40.6	40.6	40.6	40.6
43°	31.8	31.8	31.8	31.8	31.8
44°	25.2	25.2	25.2	25.2	25.2

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	18.7	18.7	18.7	18.7	18.7
46°	16.0	16.0	16.0	16.0	16.0
47°	13.4	13.4	13.4	13.4	13.4
48°	11.4	11.4	11.4	11.4	11.4
49°	10.1	10.1	10.1	10.1	10.1
50°	8.8	8.8	8.8	8.8	8.8
51°	7.9	7.9	7.9	7.9	7.9
52°	7.0	7.0	7.0	7.0	7.0
53°	6.4	6.4	6.4	6.4	6.4
54°	5.9	5.9	5.9	5.9	5.9
55°	5.5	5.5	5.5	5.5	5.5
56°	5.0	5.0	5.0	5.0	5.0
57°	4.6	4.6	4.6	4.6	4.6
58°	4.2	4.2	4.2	4.2	4.2
59°	3.7	3.7	3.7	3.7	3.7
60°	3.3	3.3	3.3	3.3	3.3
61°	3.3	3.3	3.3	3.3	3.3
62°	3.3	3.3	3.3	3.3	3.3
63°	3.1	3.1	3.1	3.1	3.1
64°	2.6	2.6	2.6	2.6	2.6
65°	2.2	2.2	2.2	2.2	2.2
66°	2.2	2.2	2.2	2.2	2.2
67°	2.2	2.2	2.2	2.2	2.2
68°	2.0	2.0	2.0	2.0	2.0
69°	1.5	1.5	1.5	1.5	1.5
70°	1.1	1.1	1.1	1.1	1.1
71°	1.1	1.1	1.1	1.1	1.1
72°	1.1	1.1	1.1	1.1	1.1
73°	1.1	1.1	1.1	1.1	1.1
74°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
76°	0.7	0.7	0.7	0.7	0.7
77°	0.2	0.2	0.2	0.2	0.2
78°	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0
89°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
106°	0.4	0.4	0.4	0.4	0.4
107°	0.9	0.9	0.9	0.9	0.9
108°	1.1	1.1	1.1	1.1	1.1
109°	1.1	1.1	1.1	1.1	1.1
110°	1.1	1.1	1.1	1.1	1.1
111°	1.1	1.1	1.1	1.1	1.1
112°	1.1	1.1	1.1	1.1	1.1
113°	1.3	1.3	1.3	1.3	1.3
114°	1.8	1.8	1.8	1.8	1.8
115°	2.2	2.2	2.2	2.2	2.2
116°	2.2	2.2	2.2	2.2	2.2
117°	2.2	2.2	2.2	2.2	2.2
118°	2.4	2.4	2.4	2.4	2.4
119°	2.9	2.9	2.9	2.9	2.9
120°	3.3	3.3	3.3	3.3	3.3
121°	3.7	3.7	3.7	3.7	3.7
122°	4.2	4.2	4.2	4.2	4.2
123°	4.6	4.6	4.6	4.6	4.6
124°	5.0	5.0	5.0	5.0	5.0
125°	5.5	5.5	5.5	5.5	5.5
126°	5.9	5.9	5.9	5.9	5.9
127°	6.4	6.4	6.4	6.4	6.4
128°	7.0	7.0	7.0	7.0	7.0
129°	7.9	7.9	7.9	7.9	7.9
130°	8.8	8.8	8.8	8.8	8.8
131°	10.1	10.1	10.1	10.1	10.1
132°	11.4	11.4	11.4	11.4	11.4
133°	12.9	12.9	12.9	12.9	12.9
134°	14.7	14.7	14.7	14.7	14.7

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	16.5	16.5	16.5	16.5	16.5
136°	19.5	19.5	19.5	19.5	19.5
137°	22.6	22.6	22.6	22.6	22.6
138°	27.7	27.7	27.7	27.7	27.7
139°	34.7	34.7	34.7	34.7	34.7
140°	41.7	41.7	41.7	41.7	41.7
141°	55.3	55.3	55.3	55.3	55.3
142°	68.9	68.9	68.9	68.9	68.9
143°	87.3	87.3	87.3	87.3	87.3
144°	110.6	110.6	110.6	110.6	110.6
145°	133.9	133.9	133.9	133.9	133.9
146°	168.1	168.1	168.1	168.1	168.1
147°	202.3	202.3	202.3	202.3	202.3
148°	242.7	242.7	242.7	242.7	242.7
149°	289.2	289.2	289.2	289.2	289.2
150°	335.8	335.8	335.8	335.8	335.8
151°	392.8	392.8	392.8	392.8	392.8
152°	449.9	449.9	449.9	449.9	449.9
153°	512.6	512.6	512.6	512.6	512.6
154°	581.1	581.1	581.1	581.1	581.1
155°	649.6	649.6	649.6	649.6	649.6
156°	734.7	734.7	734.7	734.7	734.7
157°	819.9	819.9	819.9	819.9	819.9
158°	913.6	913.6	913.6	913.6	913.6
159°	1015.8	1015.8	1015.8	1015.8	1015.8
160°	1118.1	1118.1	1118.1	1118.1	1118.1
161°	1235.3	1235.3	1235.3	1235.3	1235.3
162°	1352.5	1352.5	1352.5	1352.5	1352.5
163°	1469.6	1469.6	1469.6	1469.6	1469.6
164°	1586.8	1586.8	1586.8	1586.8	1586.8
165°	1704.0	1704.0	1704.0	1704.0	1704.0
166°	1814.2	1814.2	1814.2	1814.2	1814.2
167°	1924.3	1924.3	1924.3	1924.3	1924.3
168°	2026.4	2026.4	2026.4	2026.4	2026.4
169°	2120.3	2120.3	2120.3	2120.3	2120.3
170°	2214.2	2214.2	2214.2	2214.2	2214.2
171°	2288.0	2288.0	2288.0	2288.0	2288.0
172°	2361.7	2361.7	2361.7	2361.7	2361.7
173°	2421.6	2421.6	2421.6	2421.6	2421.6
174°	2467.7	2467.7	2467.7	2467.7	2467.7
175°	2513.8	2513.8	2513.8	2513.8	2513.8
176°	2533.5	2533.5	2533.5	2533.5	2533.5
177°	2553.3	2553.3	2553.3	2553.3	2553.3
178°	2569.1	2569.1	2569.1	2569.1	2569.1
179°	2580.9	2580.9	2580.9	2580.9	2580.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2592.8	2592.8	2592.8	2592.8	2592.8

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-MD-FL-U-S-X-X-BLAK

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	1.32	1.97	2.32	2.93	4.20	1.32	1.97	2.32	2.93	4.20
	3H	2.03	2.60	3.03	3.58	4.87	2.03	2.60	3.03	3.58	4.87
	4H	2.29	2.83	3.30	3.81	5.10	2.29	2.83	3.30	3.81	5.10
	6H	2.17	2.67	3.19	3.65	4.96	2.17	2.67	3.19	3.65	4.96
	8H	2.11	2.58	3.14	3.58	4.88	2.11	2.58	3.14	3.58	4.88
	12H	2.05	2.49	3.07	3.48	4.80	2.05	2.49	3.07	3.48	4.80
4H	2H	1.44	1.98	2.46	2.96	4.25	1.44	1.98	2.46	2.96	4.25
	3H	2.22	2.66	3.24	3.68	4.98	2.22	2.66	3.24	3.68	4.98
	4H	2.60	3.00	3.62	4.01	5.34	2.60	3.00	3.62	4.01	5.34
	6H	2.48	2.83	3.52	3.86	5.19	2.48	2.83	3.52	3.86	5.19
	8H	2.42	2.74	3.45	3.76	5.10	2.42	2.74	3.45	3.76	5.10
	12H	2.34	2.63	3.39	3.66	5.01	2.34	2.63	3.39	3.66	5.01
8H	4H	2.53	2.86	3.57	3.88	5.22	2.53	2.86	3.57	3.88	5.22
	6H	2.41	2.68	3.47	3.74	5.08	2.41	2.68	3.47	3.74	5.08
	8H	2.35	2.58	3.42	3.63	4.99	2.35	2.58	3.42	3.63	4.99
	12H	2.29	2.48	3.35	3.52	4.93	2.29	2.48	3.35	3.52	4.93
12H	4H	2.46	2.75	3.51	3.78	5.13	2.46	2.75	3.51	3.78	5.13
	6H	2.35	2.58	3.42	3.63	4.99	2.35	2.58	3.42	3.63	4.99
	8H	2.29	2.48	3.35	3.52	4.93	2.29	2.48	3.35	3.52	4.93