

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: P1057288

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057288
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-5, G2-2504-407-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-20L-FL-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)
UPLIGHT 1000 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

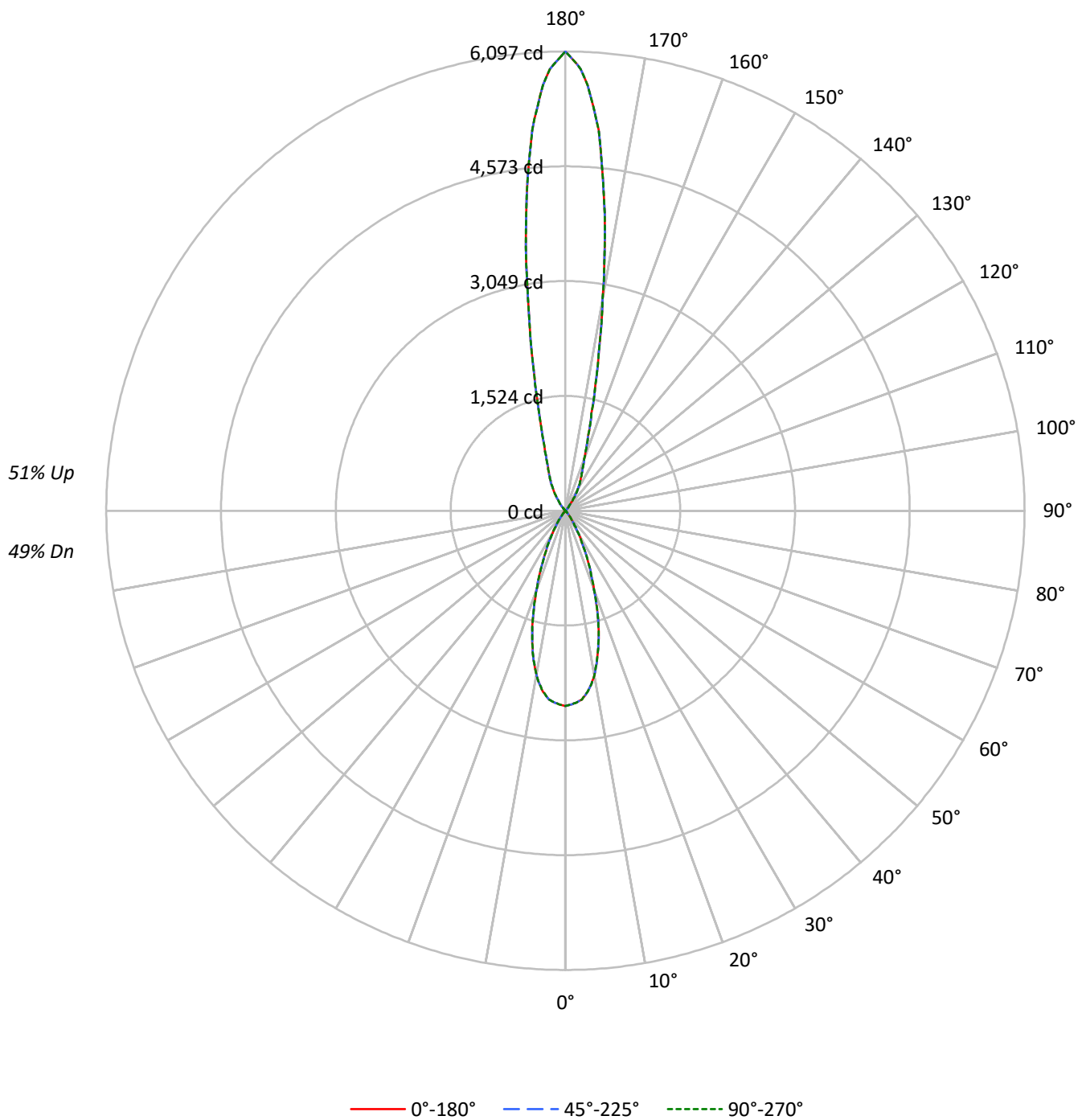
Lumens per Lamp: N/A
Luminaire Lumens: 2273.5 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

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-FL-SP-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057288

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-FL-SP-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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	100	97	94	92	92	90	87	85	76	75	73	64	63	62	53	52	52
2	94	89	84	80	87	82	79	75	71	68	66	60	59	57	51	50	49
3	88	81	76	72	82	76	71	68	66	63	60	57	55	53	48	47	46
4	83	75	69	65	77	70	65	61	62	58	55	54	51	49	46	45	44
5	78	70	63	59	73	66	60	56	58	54	51	51	48	46	44	43	41
6	74	65	59	54	69	61	56	52	55	51	48	48	46	43	43	41	39
7	70	61	54	50	66	57	52	48	52	48	45	46	43	41	41	39	37
8	66	57	51	47	62	54	49	45	49	45	42	44	41	39	39	37	36
9	63	54	48	44	59	51	46	42	46	42	40	42	39	37	38	36	34
10	60	51	45	41	57	48	43	40	44	40	38	40	37	35	36	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1670851	1670851	1670851
5°	1626130	1626130	1626130
10°	1448886	1448886	1448886
15°	1136828	1136828	1136828
20°	766767	766767	766767
25°	461891	461891	461891
30°	249873	249873	249873
35°	105338	105338	105338
40°	35079	35079	35079
45°	15037	15037	15037
50°	8822	8822	8822
55°	6179	6179	6179
60°	4253	4253	4253
65°	3355	3355	3355
70°	2073	2073	2073
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15037 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	10.1
10°-20°	462.1	20.3
20°-30°	303.5	13.3
30°-40°	93.4	4.1
40°-50°	14.8	0.7
50°-60°	5.0	0.2
60°-70°	1.9	0.1
70°-80°	0.4	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°	3.8	0.2
130°-140°	16.0	0.7
140°-150°	105.5	4.6
150°-160°	228.8	10.1
160°-170°	397.6	17.5
170°-180°	408.3	18.0
0°-30°	995.6	43.8
0°-40°	1089.1	47.9
0°-60°	1108.8	48.8
0°-90°	1111.2	48.9
90°-120°	2.3	0.1
90°-150°	127.7	5.6
90°-180°	1162.0	51.1
0°-180°	2273.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2593	2593	2593	2593	2593	
5°	2514	2514	2514	2514	2514	230
15°	1704	1704	1704	1704	1704	462
25°	650	650	650	650	650	303
35°	134	134	134	134	134	93
45°	16	16	16	16	16	15
55°	6	6	6	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	4	4	4	4	4	4
135°	15	15	15	15	15	16
145°	162	162	162	162	162	106
155°	494	494	494	494	494	229
165°	1342	1342	1342	1342	1342	398
175°	5070	5070	5070	5070	5070	408
180°	6097	6097	6097	6097	6097	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.8	2592.8	2592.8	2592.8	2592.8
1°	2580.9	2580.9	2580.9	2580.9	2580.9
2°	2569.1	2569.1	2569.1	2569.1	2569.1
3°	2553.3	2553.3	2553.3	2553.3	2553.3
4°	2533.5	2533.5	2533.5	2533.5	2533.5
5°	2513.8	2513.8	2513.8	2513.8	2513.8
6°	2467.7	2467.7	2467.7	2467.7	2467.7
7°	2421.6	2421.6	2421.6	2421.6	2421.6
8°	2361.7	2361.7	2361.7	2361.7	2361.7
9°	2288.0	2288.0	2288.0	2288.0	2288.0
10°	2214.2	2214.2	2214.2	2214.2	2214.2
11°	2120.3	2120.3	2120.3	2120.3	2120.3
12°	2026.4	2026.4	2026.4	2026.4	2026.4
13°	1924.3	1924.3	1924.3	1924.3	1924.3
14°	1814.2	1814.2	1814.2	1814.2	1814.2
15°	1704.0	1704.0	1704.0	1704.0	1704.0
16°	1586.8	1586.8	1586.8	1586.8	1586.8
17°	1469.6	1469.6	1469.6	1469.6	1469.6
18°	1352.5	1352.5	1352.5	1352.5	1352.5
19°	1235.3	1235.3	1235.3	1235.3	1235.3
20°	1118.1	1118.1	1118.1	1118.1	1118.1
21°	1015.8	1015.8	1015.8	1015.8	1015.8
22°	913.6	913.6	913.6	913.6	913.6
23°	819.9	819.9	819.9	819.9	819.9
24°	734.7	734.7	734.7	734.7	734.7
25°	649.6	649.6	649.6	649.6	649.6
26°	581.1	581.1	581.1	581.1	581.1
27°	512.6	512.6	512.6	512.6	512.6
28°	449.9	449.9	449.9	449.9	449.9
29°	392.8	392.8	392.8	392.8	392.8
30°	335.8	335.8	335.8	335.8	335.8
31°	289.2	289.2	289.2	289.2	289.2
32°	242.7	242.7	242.7	242.7	242.7
33°	202.3	202.3	202.3	202.3	202.3
34°	168.1	168.1	168.1	168.1	168.1
35°	133.9	133.9	133.9	133.9	133.9
36°	110.6	110.6	110.6	110.6	110.6
37°	87.3	87.3	87.3	87.3	87.3
38°	68.9	68.9	68.9	68.9	68.9
39°	55.3	55.3	55.3	55.3	55.3
40°	41.7	41.7	41.7	41.7	41.7
41°	34.7	34.7	34.7	34.7	34.7
42°	27.7	27.7	27.7	27.7	27.7
43°	22.6	22.6	22.6	22.6	22.6
44°	19.5	19.5	19.5	19.5	19.5

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	16.5	16.5	16.5	16.5	16.5
46°	14.7	14.7	14.7	14.7	14.7
47°	12.9	12.9	12.9	12.9	12.9
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°	2.9	2.9	2.9	2.9	2.9
62°	2.4	2.4	2.4	2.4	2.4
63°	2.2	2.2	2.2	2.2	2.2
64°	2.2	2.2	2.2	2.2	2.2
65°	2.2	2.2	2.2	2.2	2.2
66°	1.8	1.8	1.8	1.8	1.8
67°	1.3	1.3	1.3	1.3	1.3
68°	1.1	1.1	1.1	1.1	1.1
69°	1.1	1.1	1.1	1.1	1.1
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°	0.9	0.9	0.9	0.9	0.9
74°	0.4	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0
76°	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0
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-FL-SP-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°	3.3	3.3	3.3	3.3	3.3
122°	3.3	3.3	3.3	3.3	3.3
123°	3.5	3.5	3.5	3.5	3.5
124°	4.0	4.0	4.0	4.0	4.0
125°	4.4	4.4	4.4	4.4	4.4
126°	4.4	4.4	4.4	4.4	4.4
127°	4.4	4.4	4.4	4.4	4.4
128°	4.8	4.8	4.8	4.8	4.8
129°	5.7	5.7	5.7	5.7	5.7
130°	6.6	6.6	6.6	6.6	6.6
131°	7.5	7.5	7.5	7.5	7.5
132°	8.3	8.3	8.3	8.3	8.3
133°	10.1	10.1	10.1	10.1	10.1
134°	12.7	12.7	12.7	12.7	12.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	15.4	15.4	15.4	15.4	15.4
136°	21.1	21.1	21.1	21.1	21.1
137°	26.8	26.8	26.8	26.8	26.8
138°	34.9	34.9	34.9	34.9	34.9
139°	45.4	45.4	45.4	45.4	45.4
140°	56.0	56.0	56.0	56.0	56.0
141°	73.5	73.5	73.5	73.5	73.5
142°	91.1	91.1	91.1	91.1	91.1
143°	112.4	112.4	112.4	112.4	112.4
144°	137.4	137.4	137.4	137.4	137.4
145°	162.4	162.4	162.4	162.4	162.4
146°	193.6	193.6	193.6	193.6	193.6
147°	224.7	224.7	224.7	224.7	224.7
148°	257.6	257.6	257.6	257.6	257.6
149°	292.3	292.3	292.3	292.3	292.3
150°	327.0	327.0	327.0	327.0	327.0
151°	360.3	360.3	360.3	360.3	360.3
152°	393.7	393.7	393.7	393.7	393.7
153°	427.0	427.0	427.0	427.0	427.0
154°	460.4	460.4	460.4	460.4	460.4
155°	493.8	493.8	493.8	493.8	493.8
156°	532.8	532.8	532.8	532.8	532.8
157°	571.9	571.9	571.9	571.9	571.9
158°	619.3	619.3	619.3	619.3	619.3
159°	675.0	675.0	675.0	675.0	675.0
160°	730.8	730.8	730.8	730.8	730.8
161°	821.6	821.6	821.6	821.6	821.6
162°	912.5	912.5	912.5	912.5	912.5
163°	1034.7	1034.7	1034.7	1034.7	1034.7
164°	1188.3	1188.3	1188.3	1188.3	1188.3
165°	1341.9	1341.9	1341.9	1341.9	1341.9
166°	1586.8	1586.8	1586.8	1586.8	1586.8
167°	1831.7	1831.7	1831.7	1831.7	1831.7
168°	2135.0	2135.0	2135.0	2135.0	2135.0
169°	2496.6	2496.6	2496.6	2496.6	2496.6
170°	2858.3	2858.3	2858.3	2858.3	2858.3
171°	3311.7	3311.7	3311.7	3311.7	3311.7
172°	3765.0	3765.0	3765.0	3765.0	3765.0
173°	4207.4	4207.4	4207.4	4207.4	4207.4
174°	4638.9	4638.9	4638.9	4638.9	4638.9
175°	5070.3	5070.3	5070.3	5070.3	5070.3
176°	5365.7	5365.7	5365.7	5365.7	5365.7
177°	5661.0	5661.0	5661.0	5661.0	5661.0
178°	5866.4	5866.4	5866.4	5866.4	5866.4
179°	5981.9	5981.9	5981.9	5981.9	5981.9



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6097.3	6097.3	6097.3	6097.3	6097.3

TEST NUMBER: P1057288

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-FL-SP-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	1.28	1.91	2.30	2.91	4.21	1.28	1.91	2.30	2.91	4.21
	3H	1.48	2.04	2.51	3.04	4.37	1.48	2.04	2.51	3.04	4.37
	4H	1.40	1.94	2.44	2.94	4.28	1.40	1.94	2.44	2.94	4.28
	6H	1.29	1.78	2.33	2.78	4.13	1.29	1.78	2.33	2.78	4.13
	8H	1.23	1.69	2.28	2.71	4.05	1.23	1.69	2.28	2.71	4.05
	12H	1.16	1.60	2.21	2.61	3.98	1.16	1.60	2.21	2.61	3.98
4H	2H	1.36	1.89	2.41	2.90	4.23	1.36	1.89	2.41	2.90	4.23
	3H	1.72	2.16	2.76	3.19	4.53	1.72	2.16	2.76	3.19	4.53
	4H	1.63	2.03	2.68	3.05	4.42	1.63	2.03	2.68	3.05	4.42
	6H	1.51	1.86	2.57	2.90	4.27	1.51	1.86	2.57	2.90	4.27
	8H	1.45	1.77	2.50	2.80	4.18	1.45	1.77	2.50	2.80	4.18
	12H	1.37	1.66	2.44	2.71	4.09	1.37	1.66	2.44	2.71	4.09
8H	4H	1.49	1.81	2.55	2.85	4.23	1.49	1.81	2.55	2.85	4.23
	6H	1.37	1.63	2.45	2.71	4.08	1.37	1.63	2.45	2.71	4.08
	8H	1.31	1.53	2.40	2.60	4.00	1.31	1.53	2.40	2.60	4.00
	12H	1.24	1.43	2.33	2.49	3.93	1.24	1.43	2.33	2.49	3.93
12H	4H	1.41	1.70	2.49	2.75	4.14	1.41	1.70	2.49	2.75	4.14
	6H	1.31	1.53	2.40	2.60	4.00	1.31	1.53	2.40	2.60	4.00
	8H	1.24	1.43	2.33	2.49	3.93	1.24	1.43	2.33	2.49	3.93