

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: P1057277

Luminaire Tested: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057277
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2, G2-2504-407-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 750 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
UPLIGHT 750 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

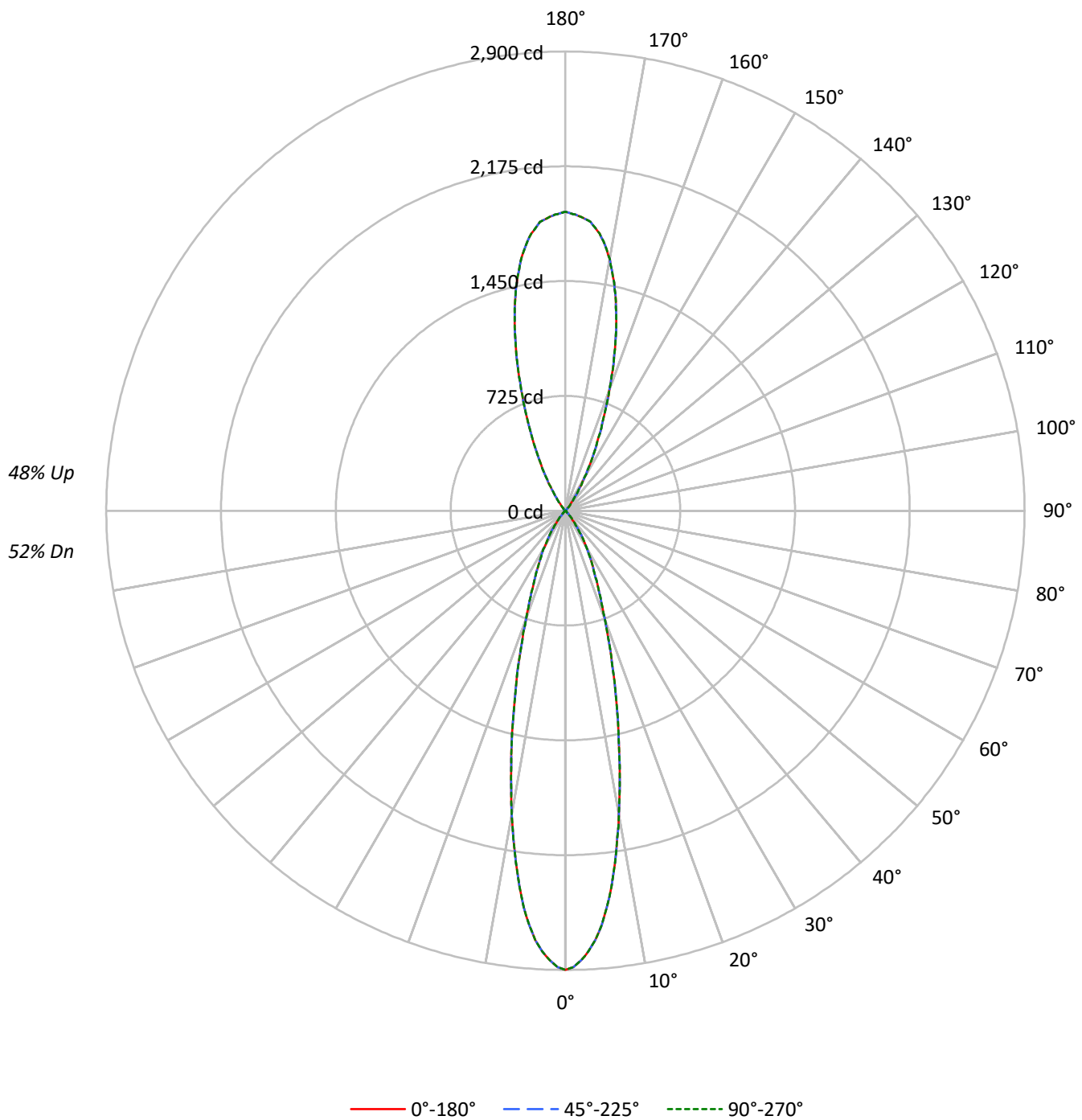
Lumens per Lamp: N/A
Luminaire Lumens: 1691.7 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 12.8
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

TEST NUMBER: P1057277

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057277

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-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	100	100	100	100	85	85	85	71	71	71	58	58	58
1	101	98	95	93	94	91	89	87	78	77	75	67	66	65	56	55	55
2	95	90	85	82	88	84	80	77	73	70	68	63	61	60	54	53	52
3	90	83	77	73	83	78	73	70	68	65	62	60	57	56	51	50	49
4	84	77	71	66	79	72	67	63	64	61	58	56	54	52	49	48	47
5	80	71	65	61	75	68	62	58	60	57	54	54	51	49	47	46	44
6	76	67	61	56	71	63	58	54	57	53	50	51	48	46	46	44	42
7	72	63	57	52	68	60	54	51	54	50	47	49	46	44	44	42	40
8	68	59	53	49	64	56	51	48	51	47	45	47	44	42	42	40	39
9	65	56	50	46	62	53	48	45	49	45	42	45	42	40	41	39	37
10	62	53	47	44	59	51	46	42	47	43	40	43	40	38	39	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1868624	1868624	1868624
5°	1699033	1699033	1699033
10°	1274368	1274368	1274368
15°	827669	827669	827669
20°	495748	495748	495748
25°	309017	309017	309017
30°	196148	196148	196148
35°	102427	102427	102427
40°	40968	40968	40968
45°	13852	13852	13852
50°	7218	7218	7218
55°	4494	4494	4494
60°	4124	4124	4124
65°	2440	2440	2440
70°	1507	1507	1507
75°	1992	1992	1992
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13852 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.3	13.5
10°-20°	342.7	20.3
20°-30°	204.8	12.1
30°-40°	85.4	5.0
40°-50°	15.1	0.9
50°-60°	4.0	0.2
60°-70°	1.9	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.3	0.0
110°-120°	1.4	0.1
120°-130°	3.6	0.2
130°-140°	10.8	0.6
140°-150°	68.0	4.0
150°-160°	220.9	13.1
160°-170°	336.4	19.9
170°-180°	167.5	9.9
0°-30°	775.9	45.9
0°-40°	861.3	50.9
0°-60°	880.3	52.0
0°-90°	882.7	52.2
90°-120°	1.7	0.1
90°-150°	84.1	5.0
90°-180°	809.0	47.8
0°-180°	1691.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2900	2900	2900	2900	2900	
5°	2626	2626	2626	2626	2626	228
15°	1241	1241	1241	1241	1241	343
25°	435	435	435	435	435	205
35°	130	130	130	130	130	85
45°	15	15	15	15	15	15
55°	4	4	4	4	4	4
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	1
125°	4	4	4	4	4	4
135°	12	12	12	12	12	11
145°	98	98	98	98	98	68
155°	473	473	473	473	473	221
165°	1240	1240	1240	1240	1240	336
175°	1830	1830	1830	1830	1830	167
180°	1888	1888	1888	1888	1888	

TEST NUMBER: P1057277

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2899.7	2899.7	2899.7	2899.7	2899.7
1°	2881.3	2881.3	2881.3	2881.3	2881.3
2°	2840.6	2840.6	2840.6	2840.6	2840.6
3°	2787.0	2787.0	2787.0	2787.0	2787.0
4°	2717.5	2717.5	2717.5	2717.5	2717.5
5°	2626.5	2626.5	2626.5	2626.5	2626.5
6°	2517.8	2517.8	2517.8	2517.8	2517.8
7°	2388.4	2388.4	2388.4	2388.4	2388.4
8°	2247.1	2247.1	2247.1	2247.1	2247.1
9°	2097.7	2097.7	2097.7	2097.7	2097.7
10°	1947.5	1947.5	1947.5	1947.5	1947.5
11°	1794.9	1794.9	1794.9	1794.9	1794.9
12°	1649.5	1649.5	1649.5	1649.5	1649.5
13°	1506.6	1506.6	1506.6	1506.6	1506.6
14°	1370.0	1370.0	1370.0	1370.0	1370.0
15°	1240.6	1240.6	1240.6	1240.6	1240.6
16°	1124.9	1124.9	1124.9	1124.9	1124.9
17°	1009.2	1009.2	1009.2	1009.2	1009.2
18°	905.7	905.7	905.7	905.7	905.7
19°	814.3	814.3	814.3	814.3	814.3
20°	722.9	722.9	722.9	722.9	722.9
21°	655.2	655.2	655.2	655.2	655.2
22°	587.4	587.4	587.4	587.4	587.4
23°	529.8	529.8	529.8	529.8	529.8
24°	482.2	482.2	482.2	482.2	482.2
25°	434.6	434.6	434.6	434.6	434.6
26°	397.8	397.8	397.8	397.8	397.8
27°	361.1	361.1	361.1	361.1	361.1
28°	326.9	326.9	326.9	326.9	326.9
29°	295.2	295.2	295.2	295.2	295.2
30°	263.6	263.6	263.6	263.6	263.6
31°	235.2	235.2	235.2	235.2	235.2
32°	206.7	206.7	206.7	206.7	206.7
33°	180.1	180.1	180.1	180.1	180.1
34°	155.1	155.1	155.1	155.1	155.1
35°	130.2	130.2	130.2	130.2	130.2
36°	111.0	111.0	111.0	111.0	111.0
37°	91.9	91.9	91.9	91.9	91.9
38°	75.6	75.6	75.6	75.6	75.6
39°	62.1	62.1	62.1	62.1	62.1
40°	48.7	48.7	48.7	48.7	48.7
41°	40.1	40.1	40.1	40.1	40.1
42°	31.5	31.5	31.5	31.5	31.5
43°	24.8	24.8	24.8	24.8	24.8
44°	20.0	20.0	20.0	20.0	20.0

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	15.2	15.2	15.2	15.2	15.2
46°	12.9	12.9	12.9	12.9	12.9
47°	10.7	10.7	10.7	10.7	10.7
48°	9.1	9.1	9.1	9.1	9.1
49°	8.1	8.1	8.1	8.1	8.1
50°	7.2	7.2	7.2	7.2	7.2
51°	6.6	6.6	6.6	6.6	6.6
52°	5.9	5.9	5.9	5.9	5.9
53°	5.3	5.3	5.3	5.3	5.3
54°	4.6	4.6	4.6	4.6	4.6
55°	4.0	4.0	4.0	4.0	4.0
56°	3.7	3.7	3.7	3.7	3.7
57°	3.4	3.4	3.4	3.4	3.4
58°	3.2	3.2	3.2	3.2	3.2
59°	3.2	3.2	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2
61°	2.9	2.9	2.9	2.9	2.9
62°	2.6	2.6	2.6	2.6	2.6
63°	2.2	2.2	2.2	2.2	2.2
64°	1.9	1.9	1.9	1.9	1.9
65°	1.6	1.6	1.6	1.6	1.6
66°	1.6	1.6	1.6	1.6	1.6
67°	1.6	1.6	1.6	1.6	1.6
68°	1.4	1.4	1.4	1.4	1.4
69°	1.1	1.1	1.1	1.1	1.1
70°	0.8	0.8	0.8	0.8	0.8
71°	0.8	0.8	0.8	0.8	0.8
72°	0.8	0.8	0.8	0.8	0.8
73°	0.8	0.8	0.8	0.8	0.8
74°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
76°	0.5	0.5	0.5	0.5	0.5
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-930-15L-NF-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°	0.3	0.3	0.3	0.3	0.3
107°	0.6	0.6	0.6	0.6	0.6
108°	0.8	0.8	0.8	0.8	0.8
109°	0.8	0.8	0.8	0.8	0.8
110°	0.8	0.8	0.8	0.8	0.8
111°	0.8	0.8	0.8	0.8	0.8
112°	0.8	0.8	0.8	0.8	0.8
113°	1.0	1.0	1.0	1.0	1.0
114°	1.3	1.3	1.3	1.3	1.3
115°	1.6	1.6	1.6	1.6	1.6
116°	1.6	1.6	1.6	1.6	1.6
117°	1.6	1.6	1.6	1.6	1.6
118°	1.8	1.8	1.8	1.8	1.8
119°	2.1	2.1	2.1	2.1	2.1
120°	2.4	2.4	2.4	2.4	2.4
121°	2.7	2.7	2.7	2.7	2.7
122°	3.0	3.0	3.0	3.0	3.0
123°	3.4	3.4	3.4	3.4	3.4
124°	3.7	3.7	3.7	3.7	3.7
125°	4.0	4.0	4.0	4.0	4.0
126°	4.3	4.3	4.3	4.3	4.3
127°	4.6	4.6	4.6	4.6	4.6
128°	5.1	5.1	5.1	5.1	5.1
129°	5.8	5.8	5.8	5.8	5.8
130°	6.4	6.4	6.4	6.4	6.4
131°	7.3	7.3	7.3	7.3	7.3
132°	8.3	8.3	8.3	8.3	8.3
133°	9.4	9.4	9.4	9.4	9.4
134°	10.7	10.7	10.7	10.7	10.7

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	12.0	12.0	12.0	12.0	12.0
136°	14.2	14.2	14.2	14.2	14.2
137°	16.5	16.5	16.5	16.5	16.5
138°	20.1	20.1	20.1	20.1	20.1
139°	25.2	25.2	25.2	25.2	25.2
140°	30.4	30.4	30.4	30.4	30.4
141°	40.3	40.3	40.3	40.3	40.3
142°	50.2	50.2	50.2	50.2	50.2
143°	63.6	63.6	63.6	63.6	63.6
144°	80.5	80.5	80.5	80.5	80.5
145°	97.5	97.5	97.5	97.5	97.5
146°	122.4	122.4	122.4	122.4	122.4
147°	147.3	147.3	147.3	147.3	147.3
148°	176.7	176.7	176.7	176.7	176.7
149°	210.6	210.6	210.6	210.6	210.6
150°	244.4	244.4	244.4	244.4	244.4
151°	286.0	286.0	286.0	286.0	286.0
152°	327.5	327.5	327.5	327.5	327.5
153°	373.2	373.2	373.2	373.2	373.2
154°	423.0	423.0	423.0	423.0	423.0
155°	472.9	472.9	472.9	472.9	472.9
156°	534.9	534.9	534.9	534.9	534.9
157°	596.9	596.9	596.9	596.9	596.9
158°	665.1	665.1	665.1	665.1	665.1
159°	739.5	739.5	739.5	739.5	739.5
160°	814.0	814.0	814.0	814.0	814.0
161°	899.3	899.3	899.3	899.3	899.3
162°	984.6	984.6	984.6	984.6	984.6
163°	1069.9	1069.9	1069.9	1069.9	1069.9
164°	1155.2	1155.2	1155.2	1155.2	1155.2
165°	1240.5	1240.5	1240.5	1240.5	1240.5
166°	1320.7	1320.7	1320.7	1320.7	1320.7
167°	1400.9	1400.9	1400.9	1400.9	1400.9
168°	1475.2	1475.2	1475.2	1475.2	1475.2
169°	1543.6	1543.6	1543.6	1543.6	1543.6
170°	1612.0	1612.0	1612.0	1612.0	1612.0
171°	1665.7	1665.7	1665.7	1665.7	1665.7
172°	1719.3	1719.3	1719.3	1719.3	1719.3
173°	1762.9	1762.9	1762.9	1762.9	1762.9
174°	1796.5	1796.5	1796.5	1796.5	1796.5
175°	1830.0	1830.0	1830.0	1830.0	1830.0
176°	1844.4	1844.4	1844.4	1844.4	1844.4
177°	1858.8	1858.8	1858.8	1858.8	1858.8
178°	1870.3	1870.3	1870.3	1870.3	1870.3
179°	1878.9	1878.9	1878.9	1878.9	1878.9



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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	1887.6	1887.6	1887.6	1887.6	1887.6

TEST NUMBER: P1057277

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-NF-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	0.45	1.09	1.44	2.06	3.32	0.45	1.09	1.44	2.06	3.32
	3H	1.08	1.65	2.08	2.63	3.91	1.08	1.65	2.08	2.63	3.91
	4H	1.32	1.86	2.33	2.84	4.13	1.32	1.86	2.33	2.84	4.13
	6H	1.20	1.70	2.22	2.68	3.98	1.20	1.70	2.22	2.68	3.98
	8H	1.14	1.61	2.17	2.61	3.90	1.14	1.61	2.17	2.61	3.90
	12H	1.08	1.52	2.10	2.51	3.83	1.08	1.52	2.10	2.51	3.83
4H	2H	0.54	1.08	1.55	2.05	3.35	0.54	1.08	1.55	2.05	3.35
	3H	1.24	1.69	2.26	2.70	4.00	1.24	1.69	2.26	2.70	4.00
	4H	1.60	2.01	2.62	3.01	4.34	1.60	2.01	2.62	3.01	4.34
	6H	1.49	1.84	2.52	2.86	4.18	1.49	1.84	2.52	2.86	4.18
	8H	1.42	1.75	2.46	2.76	4.10	1.42	1.75	2.46	2.76	4.10
	12H	1.35	1.64	2.40	2.67	4.01	1.35	1.64	2.40	2.67	4.01
8H	4H	1.54	1.86	2.57	2.88	4.21	1.54	1.86	2.57	2.88	4.21
	6H	1.42	1.68	2.48	2.74	4.07	1.42	1.68	2.48	2.74	4.07
	8H	1.36	1.59	2.42	2.63	3.98	1.36	1.59	2.42	2.63	3.98
	12H	1.29	1.49	2.35	2.53	3.92	1.29	1.49	2.35	2.53	3.92
12H	4H	1.46	1.75	2.51	2.78	4.12	1.46	1.75	2.51	2.78	4.12
	6H	1.36	1.59	2.42	2.63	3.98	1.36	1.59	2.42	2.63	3.98
	8H	1.29	1.49	2.35	2.53	3.92	1.29	1.49	2.35	2.53	3.92

END OF REPORT