

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: P1057276

Luminaire Tested: PRLX-CYL2W-DI-X-930-15L-MD-SP-U-S-X-X-BLAK

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057276
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-5, 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-930-15L-MD-SP-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 750 LUMENS, MEDIUM OPTIC (23-DEGREES)
UPLIGHT 750 LUMENS, SPOT OPTIC (19-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

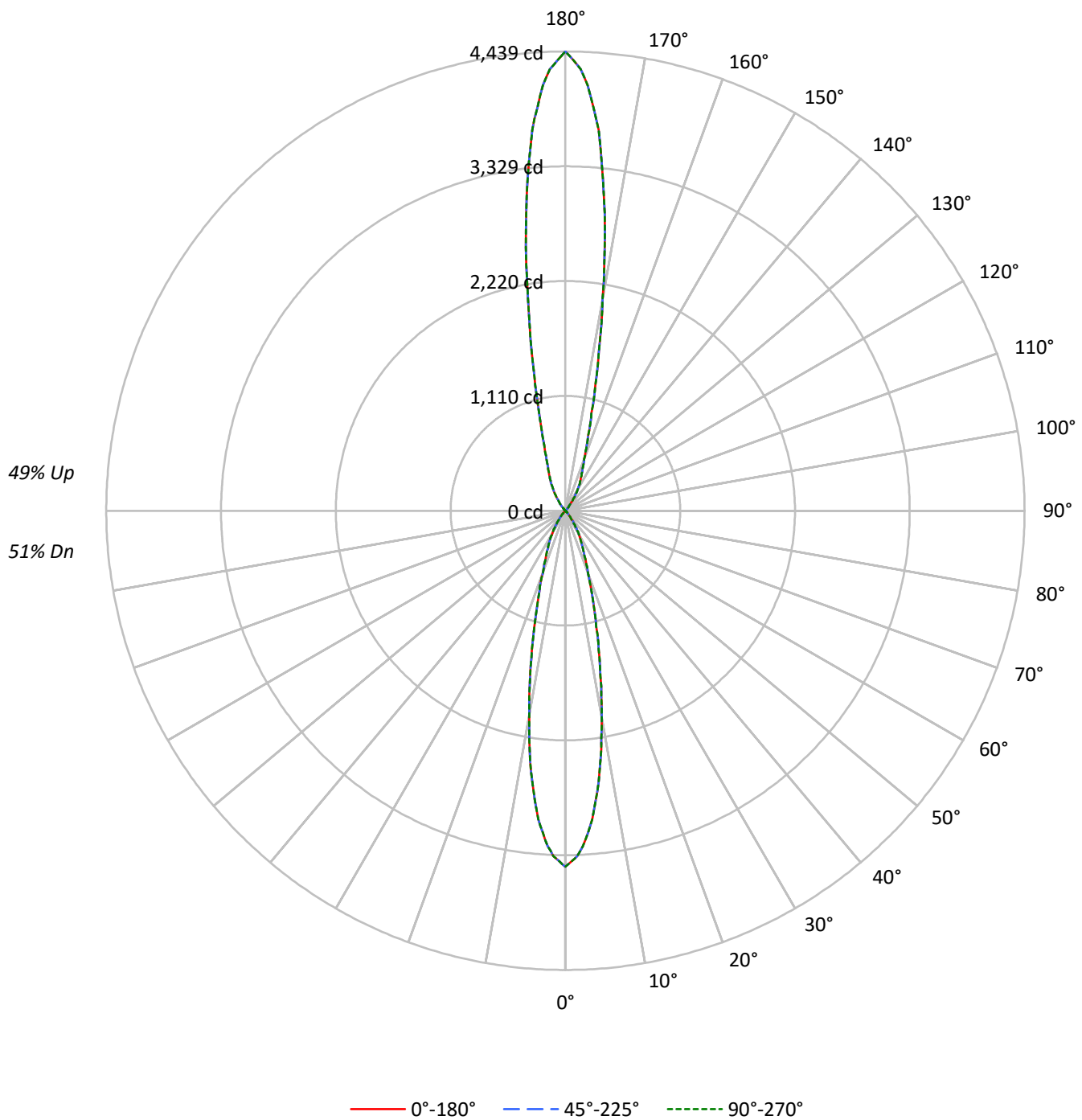
Lumens per Lamp: N/A
Luminaire Lumens: 1714.1 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-SP-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057276

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-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	99	99	99	99	84	84	84	70	70	70	57	57	57
1	101	98	95	92	93	91	88	86	78	76	75	66	65	64	55	54	54
2	95	89	85	81	88	83	80	77	72	70	68	62	60	59	52	52	51
3	89	82	77	73	83	77	73	69	68	64	62	59	57	55	50	49	48
4	84	76	71	66	78	72	67	63	63	60	57	56	53	51	48	47	46
5	80	71	65	61	74	67	62	58	60	56	53	53	50	48	47	45	44
6	75	66	60	56	71	63	58	54	57	53	50	51	48	46	45	43	42
7	72	62	56	52	67	59	54	50	54	50	47	48	45	43	43	41	40
8	68	59	53	49	64	56	51	47	51	47	44	46	43	41	42	40	38
9	65	56	50	46	61	53	48	45	49	45	42	44	42	40	40	38	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°	2217577	2217577	2217577
5°	1937150	1937150	1937150
10°	1321351	1321351	1321351
15°	770027	770027	770027
20°	438760	438760	438760
25°	283989	283989	283989
30°	187814	187814	187814
35°	98651	98651	98651
40°	38276	38276	38276
45°	12394	12394	12394
50°	6416	6416	6416
55°	4494	4494	4494
60°	3093	3093	3093
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: 12394 cd/sqm

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-SP-U-S-X-X-BLAK

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	14.8
10°-20°	325.0	19.0
20°-30°	187.6	10.9
30°-40°	82.1	4.8
40°-50°	13.9	0.8
50°-60°	3.6	0.2
60°-70°	1.8	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°	2.8	0.2
130°-140°	11.6	0.7
140°-150°	76.8	4.5
150°-160°	166.6	9.7
160°-170°	289.4	16.9
170°-180°	297.3	17.3
0°-30°	765.9	44.7
0°-40°	848.0	49.5
0°-60°	865.6	50.5
0°-90°	867.9	50.6
90°-120°	1.7	0.1
90°-150°	92.9	5.4
90°-180°	846.0	49.4
0°-180°	1714.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3441	3441	3441	3441	3441	
5°	2995	2995	2995	2995	2995	253
15°	1154	1154	1154	1154	1154	325
25°	399	399	399	399	399	188
35°	125	125	125	125	125	82
45°	14	14	14	14	14	14
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°	3	3	3	3	3	3
135°	11	11	11	11	11	12
145°	118	118	118	118	118	77
155°	360	360	360	360	360	167
165°	977	977	977	977	977	289
175°	3691	3691	3691	3691	3691	297
180°	4439	4439	4439	4439	4439	

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3441.2	3441.2	3441.2	3441.2	3441.2
1°	3389.7	3389.7	3389.7	3389.7	3389.7
2°	3338.3	3338.3	3338.3	3338.3	3338.3
3°	3249.0	3249.0	3249.0	3249.0	3249.0
4°	3121.8	3121.8	3121.8	3121.8	3121.8
5°	2994.6	2994.6	2994.6	2994.6	2994.6
6°	2814.7	2814.7	2814.7	2814.7	2814.7
7°	2634.9	2634.9	2634.9	2634.9	2634.9
8°	2439.8	2439.8	2439.8	2439.8	2439.8
9°	2229.6	2229.6	2229.6	2229.6	2229.6
10°	2019.3	2019.3	2019.3	2019.3	2019.3
11°	1828.3	1828.3	1828.3	1828.3	1828.3
12°	1637.2	1637.2	1637.2	1637.2	1637.2
13°	1464.2	1464.2	1464.2	1464.2	1464.2
14°	1309.2	1309.2	1309.2	1309.2	1309.2
15°	1154.2	1154.2	1154.2	1154.2	1154.2
16°	1034.1	1034.1	1034.1	1034.1	1034.1
17°	914.0	914.0	914.0	914.0	914.0
18°	811.1	811.1	811.1	811.1	811.1
19°	725.5	725.5	725.5	725.5	725.5
20°	639.8	639.8	639.8	639.8	639.8
21°	583.3	583.3	583.3	583.3	583.3
22°	526.7	526.7	526.7	526.7	526.7
23°	478.6	478.6	478.6	478.6	478.6
24°	439.0	439.0	439.0	439.0	439.0
25°	399.4	399.4	399.4	399.4	399.4
26°	368.7	368.7	368.7	368.7	368.7
27°	338.0	338.0	338.0	338.0	338.0
28°	308.6	308.6	308.6	308.6	308.6
29°	280.5	280.5	280.5	280.5	280.5
30°	252.4	252.4	252.4	252.4	252.4
31°	225.9	225.9	225.9	225.9	225.9
32°	199.4	199.4	199.4	199.4	199.4
33°	174.0	174.0	174.0	174.0	174.0
34°	149.7	149.7	149.7	149.7	149.7
35°	125.4	125.4	125.4	125.4	125.4
36°	106.9	106.9	106.9	106.9	106.9
37°	88.3	88.3	88.3	88.3	88.3
38°	72.4	72.4	72.4	72.4	72.4
39°	59.0	59.0	59.0	59.0	59.0
40°	45.5	45.5	45.5	45.5	45.5
41°	37.5	37.5	37.5	37.5	37.5
42°	29.6	29.6	29.6	29.6	29.6
43°	23.2	23.2	23.2	23.2	23.2
44°	18.4	18.4	18.4	18.4	18.4

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	13.6	13.6	13.6	13.6	13.6
46°	11.7	11.7	11.7	11.7	11.7
47°	9.7	9.7	9.7	9.7	9.7
48°	8.3	8.3	8.3	8.3	8.3
49°	7.3	7.3	7.3	7.3	7.3
50°	6.4	6.4	6.4	6.4	6.4
51°	5.8	5.8	5.8	5.8	5.8
52°	5.1	5.1	5.1	5.1	5.1
53°	4.6	4.6	4.6	4.6	4.6
54°	4.3	4.3	4.3	4.3	4.3
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°	3.0	3.0	3.0	3.0	3.0
59°	2.7	2.7	2.7	2.7	2.7
60°	2.4	2.4	2.4	2.4	2.4
61°	2.4	2.4	2.4	2.4	2.4
62°	2.4	2.4	2.4	2.4	2.4
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-MD-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°	0.3	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°	2.4	2.4	2.4	2.4	2.4
122°	2.4	2.4	2.4	2.4	2.4
123°	2.6	2.6	2.6	2.6	2.6
124°	2.9	2.9	2.9	2.9	2.9
125°	3.2	3.2	3.2	3.2	3.2
126°	3.2	3.2	3.2	3.2	3.2
127°	3.2	3.2	3.2	3.2	3.2
128°	3.5	3.5	3.5	3.5	3.5
129°	4.2	4.2	4.2	4.2	4.2
130°	4.8	4.8	4.8	4.8	4.8
131°	5.4	5.4	5.4	5.4	5.4
132°	6.1	6.1	6.1	6.1	6.1
133°	7.3	7.3	7.3	7.3	7.3
134°	9.3	9.3	9.3	9.3	9.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
135°	11.2	11.2	11.2	11.2	11.2
136°	15.3	15.3	15.3	15.3	15.3
137°	19.5	19.5	19.5	19.5	19.5
138°	25.4	25.4	25.4	25.4	25.4
139°	33.1	33.1	33.1	33.1	33.1
140°	40.7	40.7	40.7	40.7	40.7
141°	53.5	53.5	53.5	53.5	53.5
142°	66.3	66.3	66.3	66.3	66.3
143°	81.8	81.8	81.8	81.8	81.8
144°	100.0	100.0	100.0	100.0	100.0
145°	118.2	118.2	118.2	118.2	118.2
146°	140.9	140.9	140.9	140.9	140.9
147°	163.6	163.6	163.6	163.6	163.6
148°	187.6	187.6	187.6	187.6	187.6
149°	212.8	212.8	212.8	212.8	212.8
150°	238.0	238.0	238.0	238.0	238.0
151°	262.3	262.3	262.3	262.3	262.3
152°	286.6	286.6	286.6	286.6	286.6
153°	310.9	310.9	310.9	310.9	310.9
154°	335.2	335.2	335.2	335.2	335.2
155°	359.5	359.5	359.5	359.5	359.5
156°	387.9	387.9	387.9	387.9	387.9
157°	416.3	416.3	416.3	416.3	416.3
158°	450.8	450.8	450.8	450.8	450.8
159°	491.4	491.4	491.4	491.4	491.4
160°	532.0	532.0	532.0	532.0	532.0
161°	598.1	598.1	598.1	598.1	598.1
162°	664.3	664.3	664.3	664.3	664.3
163°	753.3	753.3	753.3	753.3	753.3
164°	865.1	865.1	865.1	865.1	865.1
165°	976.9	976.9	976.9	976.9	976.9
166°	1155.2	1155.2	1155.2	1155.2	1155.2
167°	1333.5	1333.5	1333.5	1333.5	1333.5
168°	1554.3	1554.3	1554.3	1554.3	1554.3
169°	1817.6	1817.6	1817.6	1817.6	1817.6
170°	2080.8	2080.8	2080.8	2080.8	2080.8
171°	2410.9	2410.9	2410.9	2410.9	2410.9
172°	2741.0	2741.0	2741.0	2741.0	2741.0
173°	3063.0	3063.0	3063.0	3063.0	3063.0
174°	3377.1	3377.1	3377.1	3377.1	3377.1
175°	3691.2	3691.2	3691.2	3691.2	3691.2
176°	3906.2	3906.2	3906.2	3906.2	3906.2
177°	4121.3	4121.3	4121.3	4121.3	4121.3
178°	4270.8	4270.8	4270.8	4270.8	4270.8
179°	4354.8	4354.8	4354.8	4354.8	4354.8



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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-SP-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	4438.9	4438.9	4438.9	4438.9	4438.9

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-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	0.06	0.70	1.06	1.67	2.95	0.06	0.70	1.06	1.67	2.95
	3H	0.75	1.32	1.76	2.31	3.61	0.75	1.32	1.76	2.31	3.61
	4H	1.01	1.55	2.04	2.54	3.85	1.01	1.55	2.04	2.54	3.85
	6H	0.90	1.39	1.93	2.39	3.71	0.90	1.39	1.93	2.39	3.71
	8H	0.84	1.30	1.87	2.31	3.63	0.84	1.30	1.87	2.31	3.63
	12H	0.77	1.22	1.81	2.22	3.55	0.77	1.22	1.81	2.22	3.55
4H	2H	0.18	0.71	1.21	1.70	3.02	0.18	0.71	1.21	1.70	3.02
	3H	0.95	1.39	1.98	2.41	3.73	0.95	1.39	1.98	2.41	3.73
	4H	1.33	1.74	2.37	2.75	4.10	1.33	1.74	2.37	2.75	4.10
	6H	1.22	1.57	2.27	2.60	3.95	1.22	1.57	2.27	2.60	3.95
	8H	1.15	1.48	2.20	2.50	3.86	1.15	1.48	2.20	2.50	3.86
	12H	1.08	1.37	2.14	2.41	3.77	1.08	1.37	2.14	2.41	3.77
8H	4H	1.28	1.60	2.32	2.62	3.98	1.28	1.60	2.32	2.62	3.98
	6H	1.16	1.42	2.22	2.49	3.84	1.16	1.42	2.22	2.49	3.84
	8H	1.10	1.32	2.17	2.38	3.75	1.10	1.32	2.17	2.38	3.75
	12H	1.03	1.23	2.10	2.27	3.69	1.03	1.23	2.10	2.27	3.69
12H	4H	1.20	1.49	2.26	2.53	3.89	1.20	1.49	2.26	2.53	3.89
	6H	1.10	1.32	2.17	2.38	3.75	1.10	1.32	2.17	2.38	3.75
	8H	1.03	1.23	2.10	2.27	3.69	1.03	1.23	2.10	2.27	3.69

END OF REPORT