

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: P1057273

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057273
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-930-15L-MD-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 750 LUMENS, MEDIUM OPTIC (23-DEGREES)
UPLIGHT 750 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

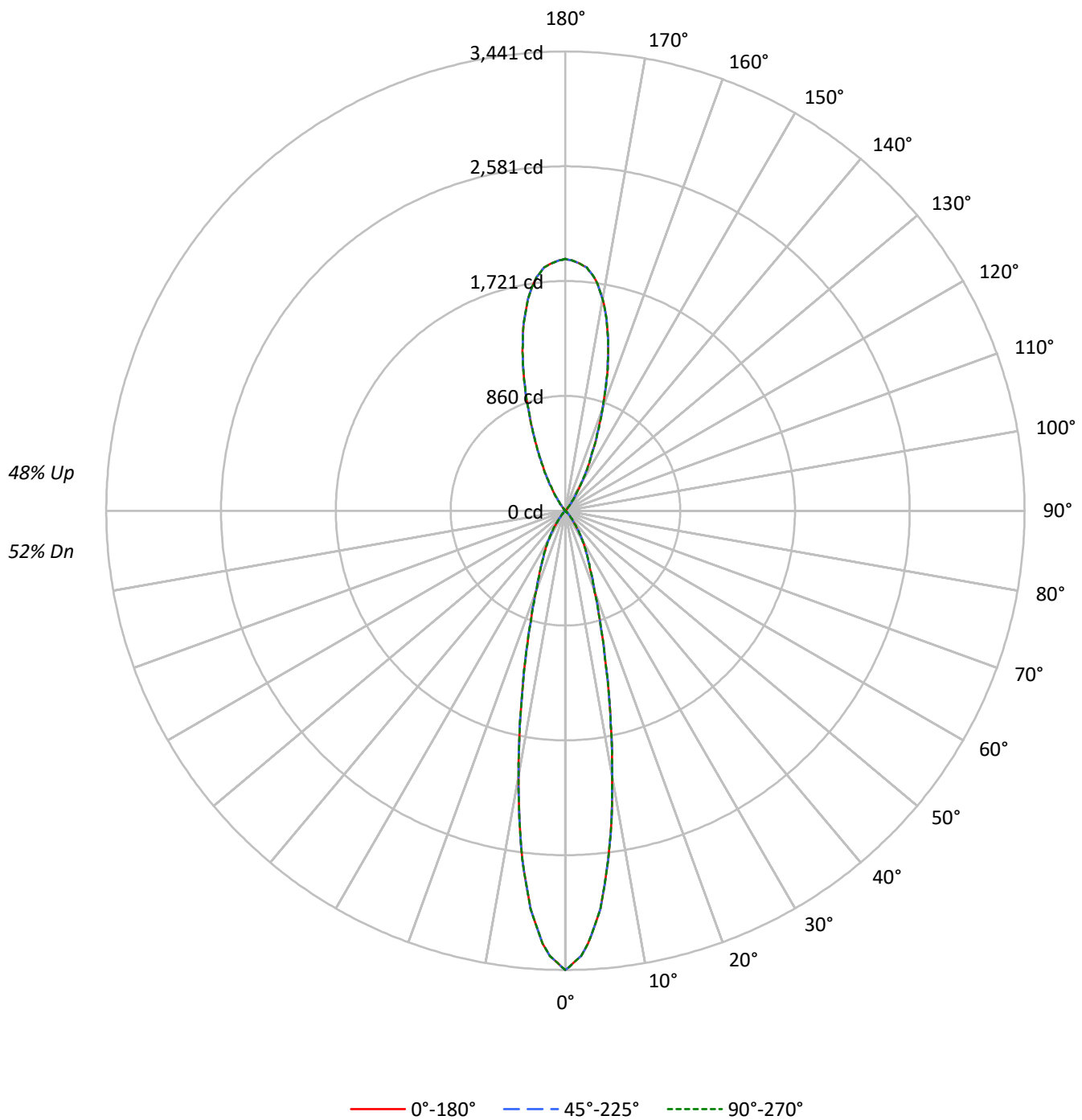
Lumens per Lamp: N/A
Luminaire Lumens: 1676.8 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

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

Luminous Intensity Polar Plot



TEST NUMBER: P1057273

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	15.1
10°-20°	325.0	19.4
20°-30°	187.6	11.2
30°-40°	82.1	4.9
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°	3.6	0.2
130°-140°	10.8	0.6
140°-150°	68.0	4.1
150°-160°	220.9	13.2
160°-170°	336.4	20.1
170°-180°	167.5	10.0
0°-30°	765.9	45.7
0°-40°	848.0	50.6
0°-60°	865.6	51.6
0°-90°	867.9	51.8
90°-120°	1.7	0.1
90°-150°	84.1	5.0
90°-180°	809.0	48.2
0°-180°	1676.8	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°	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	

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-MD-FL-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-FL-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-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-MD-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-MD-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

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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-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	0.17	0.81	1.16	1.78	3.04	0.17	0.81	1.16	1.78	3.04
	3H	0.86	1.43	1.86	2.41	3.70	0.86	1.43	1.86	2.41	3.70
	4H	1.12	1.66	2.14	2.64	3.94	1.12	1.66	2.14	2.64	3.94
	6H	1.01	1.51	2.03	2.49	3.80	1.01	1.51	2.03	2.49	3.80
	8H	0.95	1.42	1.98	2.42	3.72	0.95	1.42	1.98	2.42	3.72
	12H	0.89	1.33	1.91	2.32	3.64	0.89	1.33	1.91	2.32	3.64
4H	2H	0.29	0.83	1.31	1.81	3.11	0.29	0.83	1.31	1.81	3.11
	3H	1.06	1.50	2.08	2.52	3.82	1.06	1.50	2.08	2.52	3.82
	4H	1.44	1.85	2.47	2.85	4.19	1.44	1.85	2.47	2.85	4.19
	6H	1.33	1.68	2.37	2.70	4.04	1.33	1.68	2.37	2.70	4.04
	8H	1.26	1.59	2.30	2.61	3.95	1.26	1.59	2.30	2.61	3.95
	12H	1.19	1.48	2.24	2.51	3.86	1.19	1.48	2.24	2.51	3.86
8H	4H	1.39	1.71	2.42	2.73	4.07	1.39	1.71	2.42	2.73	4.07
	6H	1.27	1.53	2.33	2.59	3.93	1.27	1.53	2.33	2.59	3.93
	8H	1.21	1.44	2.28	2.48	3.84	1.21	1.44	2.28	2.48	3.84
	12H	1.14	1.34	2.21	2.38	3.78	1.14	1.34	2.21	2.38	3.78
12H	4H	1.31	1.60	2.36	2.63	3.98	1.31	1.60	2.36	2.63	3.98
	6H	1.21	1.44	2.28	2.48	3.84	1.21	1.44	2.28	2.48	3.84
	8H	1.14	1.34	2.21	2.38	3.78	1.14	1.34	2.21	2.38	3.78

END OF REPORT