

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: P1057293

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057293
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-930-20L-NF-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 1000 LUMENS, NARROW FLOOD OPTIC (27-DEGREES)
UPLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

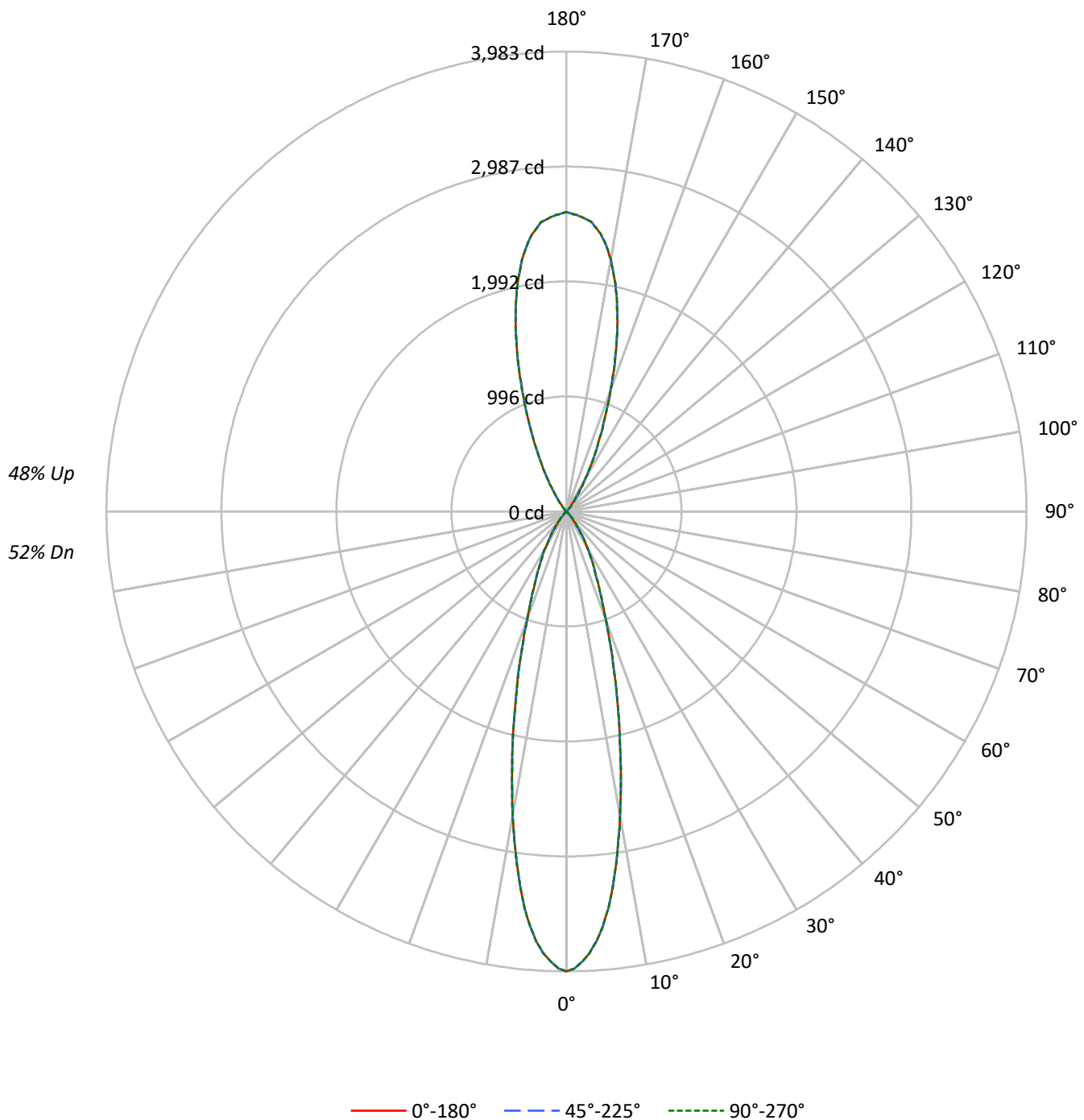
Lumens per Lamp: N/A
Luminaire Lumens: 2323.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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-NF-FL-U-S-X-X-BLAK

Luminous Intensity Polar Plot



TEST NUMBER: P1057293

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-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°	2566788	2566788	2566788
5°	2333818	2333818	2333818
10°	1750481	1750481	1750481
15°	1136828	1136828	1136828
20°	680977	680977	680977
25°	424419	424419	424419
30°	269443	269443	269443
35°	140739	140739	140739
40°	56278	56278	56278
45°	18956	18956	18956
50°	9925	9925	9925
55°	6179	6179	6179
60°	5671	5671	5671
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: 18956 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	13.5
10°-20°	470.7	20.3
20°-30°	281.4	12.1
30°-40°	117.3	5.0
40°-50°	20.7	0.9
50°-60°	5.5	0.2
60°-70°	2.6	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	4.0
150°-160°	303.5	13.1
160°-170°	462.1	19.9
170°-180°	230.0	9.9
0°-30°	1065.7	45.9
0°-40°	1183.0	50.9
0°-60°	1209.2	52.0
0°-90°	1212.5	52.2
90°-120°	2.3	0.1
90°-150°	115.5	5.0
90°-180°	1111.0	47.8
0°-180°	2323.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3983	3983	3983	3983	3983	
5°	3608	3608	3608	3608	3608	314
15°	1704	1704	1704	1704	1704	471
25°	597	597	597	597	597	281
35°	179	179	179	179	179	117
45°	21	21	21	21	21	21
55°	6	6	6	6	6	5
65°	2	2	2	2	2	3
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	

TEST NUMBER: P1057293

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3983.1	3983.1	3983.1	3983.1	3983.1
1°	3957.8	3957.8	3957.8	3957.8	3957.8
2°	3901.9	3901.9	3901.9	3901.9	3901.9
3°	3828.3	3828.3	3828.3	3828.3	3828.3
4°	3732.9	3732.9	3732.9	3732.9	3732.9
5°	3607.8	3607.8	3607.8	3607.8	3607.8
6°	3458.6	3458.6	3458.6	3458.6	3458.6
7°	3280.8	3280.8	3280.8	3280.8	3280.8
8°	3086.6	3086.6	3086.6	3086.6	3086.6
9°	2881.4	2881.4	2881.4	2881.4	2881.4
10°	2675.1	2675.1	2675.1	2675.1	2675.1
11°	2465.5	2465.5	2465.5	2465.5	2465.5
12°	2265.8	2265.8	2265.8	2265.8	2265.8
13°	2069.4	2069.4	2069.4	2069.4	2069.4
14°	1881.8	1881.8	1881.8	1881.8	1881.8
15°	1704.0	1704.0	1704.0	1704.0	1704.0
16°	1545.2	1545.2	1545.2	1545.2	1545.2
17°	1386.3	1386.3	1386.3	1386.3	1386.3
18°	1244.1	1244.1	1244.1	1244.1	1244.1
19°	1118.5	1118.5	1118.5	1118.5	1118.5
20°	993.0	993.0	993.0	993.0	993.0
21°	900.0	900.0	900.0	900.0	900.0
22°	806.9	806.9	806.9	806.9	806.9
23°	727.7	727.7	727.7	727.7	727.7
24°	662.3	662.3	662.3	662.3	662.3
25°	596.9	596.9	596.9	596.9	596.9
26°	546.4	546.4	546.4	546.4	546.4
27°	496.0	496.0	496.0	496.0	496.0
28°	449.0	449.0	449.0	449.0	449.0
29°	405.5	405.5	405.5	405.5	405.5
30°	362.1	362.1	362.1	362.1	362.1
31°	323.0	323.0	323.0	323.0	323.0
32°	284.0	284.0	284.0	284.0	284.0
33°	247.3	247.3	247.3	247.3	247.3
34°	213.1	213.1	213.1	213.1	213.1
35°	178.9	178.9	178.9	178.9	178.9
36°	152.5	152.5	152.5	152.5	152.5
37°	126.2	126.2	126.2	126.2	126.2
38°	103.8	103.8	103.8	103.8	103.8
39°	85.4	85.4	85.4	85.4	85.4
40°	66.9	66.9	66.9	66.9	66.9
41°	55.1	55.1	55.1	55.1	55.1
42°	43.2	43.2	43.2	43.2	43.2
43°	34.0	34.0	34.0	34.0	34.0
44°	27.4	27.4	27.4	27.4	27.4

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	20.8	20.8	20.8	20.8	20.8
46°	17.8	17.8	17.8	17.8	17.8
47°	14.7	14.7	14.7	14.7	14.7
48°	12.5	12.5	12.5	12.5	12.5
49°	11.2	11.2	11.2	11.2	11.2
50°	9.9	9.9	9.9	9.9	9.9
51°	9.0	9.0	9.0	9.0	9.0
52°	8.1	8.1	8.1	8.1	8.1
53°	7.2	7.2	7.2	7.2	7.2
54°	6.4	6.4	6.4	6.4	6.4
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°	4.4	4.4	4.4	4.4	4.4
59°	4.4	4.4	4.4	4.4	4.4
60°	4.4	4.4	4.4	4.4	4.4
61°	4.0	4.0	4.0	4.0	4.0
62°	3.5	3.5	3.5	3.5	3.5
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-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°	0.4	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-NF-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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CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-NF-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

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

TEST NUMBER: P1057293

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-20L-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	1.52	2.17	2.52	3.13	4.39	1.52	2.17	2.52	3.13	4.39
	3H	2.18	2.75	3.18	3.73	5.01	2.18	2.75	3.18	3.73	5.01
	4H	2.42	2.96	3.43	3.94	5.23	2.42	2.96	3.43	3.94	5.23
	6H	2.31	2.80	3.33	3.79	5.09	2.31	2.80	3.33	3.79	5.09
	8H	2.24	2.71	3.27	3.71	5.01	2.24	2.71	3.27	3.71	5.01
	12H	2.18	2.62	3.21	3.61	4.93	2.18	2.62	3.21	3.61	4.93
4H	2H	1.61	2.15	2.63	3.13	4.42	1.61	2.15	2.63	3.13	4.42
	3H	2.35	2.79	3.37	3.80	5.10	2.35	2.79	3.37	3.80	5.10
	4H	2.71	3.11	3.73	4.12	5.44	2.71	3.11	3.73	4.12	5.44
	6H	2.59	2.94	3.63	3.96	5.29	2.59	2.94	3.63	3.96	5.29
	8H	2.53	2.85	3.56	3.86	5.20	2.53	2.85	3.56	3.86	5.20
	12H	2.45	2.74	3.50	3.77	5.11	2.45	2.74	3.50	3.77	5.11
8H	4H	2.64	2.96	3.67	3.98	5.31	2.64	2.96	3.67	3.98	5.31
	6H	2.52	2.78	3.58	3.84	5.17	2.52	2.78	3.58	3.84	5.17
	8H	2.46	2.69	3.52	3.73	5.08	2.46	2.69	3.52	3.73	5.08
	12H	2.39	2.59	3.45	3.62	5.02	2.39	2.59	3.45	3.62	5.02
12H	4H	2.56	2.85	3.61	3.88	5.22	2.56	2.85	3.61	3.88	5.22
	6H	2.46	2.69	3.52	3.73	5.08	2.46	2.69	3.52	3.73	5.08
	8H	2.39	2.59	3.45	3.62	5.02	2.39	2.59	3.45	3.62	5.02

END OF REPORT