

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: P1057281

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

Issue Date: 8/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1057281
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2, G2-2504-407-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-CYL2W-DI-X-930-15L-SP-FL-U-S-X-X-BLAK
Description: PrentaLux 2-INCH CYLINDER
DOWNLIGHT 750 LUMENS, SPOT OPTIC (19-DEGREES)
UPLIGHT 750 LUMENS, FLOOD OPTIC (38-DEGREES)
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

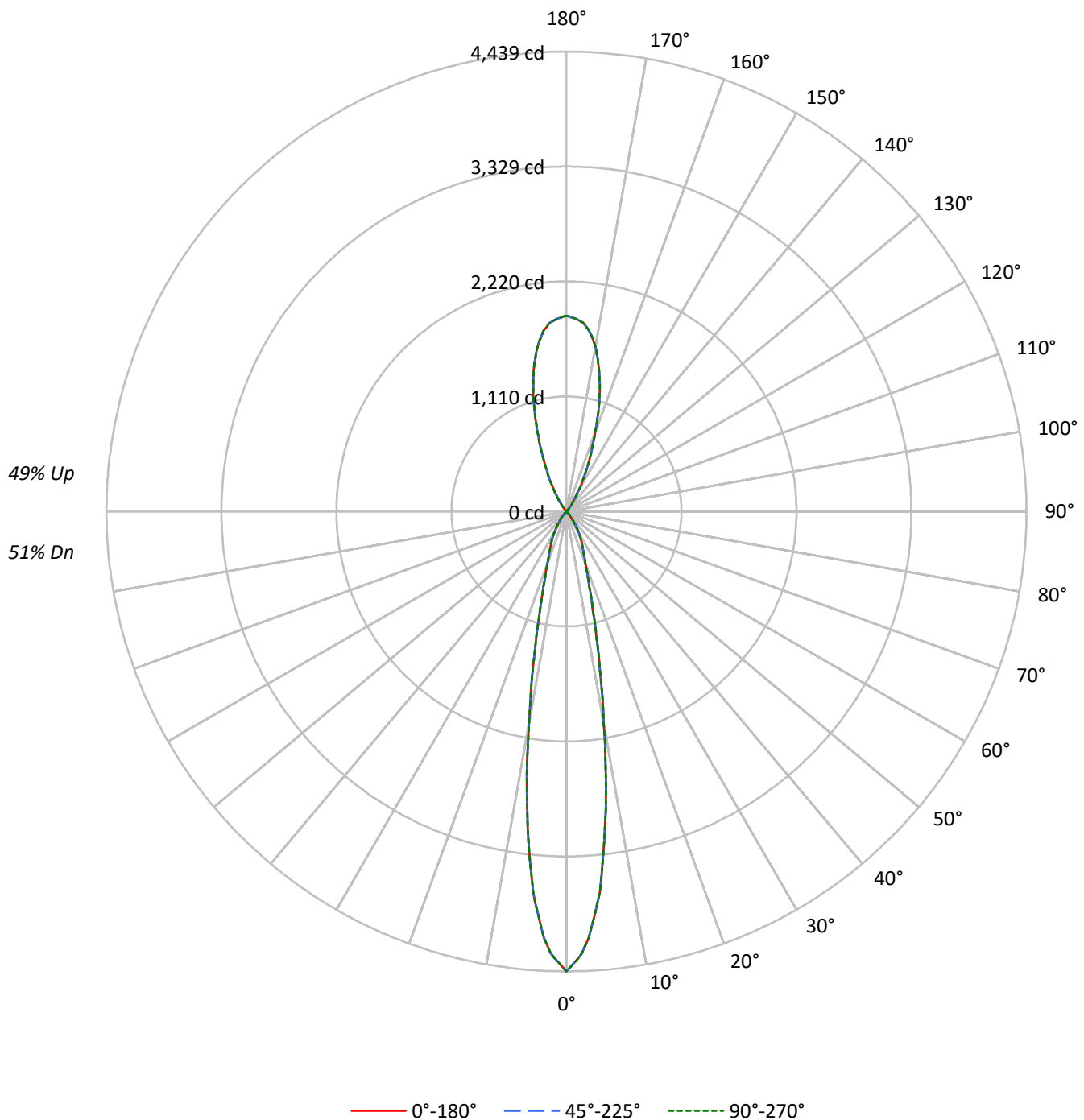
Lumens per Lamp: N/A
Luminaire Lumens: 1655.2 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.34
Luminous Opening: Circular (Dia: 0.15' x H: 0')
CIE Type: General Diffuse

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: P1057281

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

Luminous Intensity Polar Plot



TEST NUMBER: P1057281

CATALOG NUMBER: PRLX-CYL2W-DI-X-930-15L-SP-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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	101	98	95	93	94	91	89	87	78	77	75	66	65	64	55	55	54
2	95	90	86	82	88	84	80	77	73	70	68	63	61	60	53	52	51
3	90	83	78	74	84	78	73	70	68	65	63	59	57	56	51	50	49
4	85	77	71	67	79	73	68	64	64	61	58	57	54	52	49	48	47
5	80	72	66	62	75	68	63	59	61	57	54	54	51	49	48	46	45
6	76	67	62	57	72	64	59	55	58	54	51	52	49	47	46	44	43
7	72	63	58	54	68	61	55	52	55	51	48	50	47	45	45	43	41
8	69	60	54	50	65	57	52	49	52	49	46	48	45	43	43	41	40
9	66	57	51	48	63	55	50	46	50	46	44	46	43	41	42	40	39
10	63	54	49	45	60	52	47	44	48	44	42	44	41	40	41	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2860514	2860514	2860514
5°	2387768	2387768	2387768
10°	1361594	1361594	1361594
15°	651741	651741	651741
20°	364833	364833	364833
25°	255618	255618	255618
30°	177099	177099	177099
35°	92987	92987	92987
40°	34238	34238	34238
45°	10207	10207	10207
50°	4812	4812	4812
55°	3595	3595	3595
60°	3093	3093	3093
65°	2440	2440	2440
70°	1507	1507	1507
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10207 cd/sqm

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	18.0
10°-20°	289.4	17.5
20°-30°	166.6	10.1
30°-40°	76.8	4.6
40°-50°	11.6	0.7
50°-60°	2.8	0.2
60°-70°	1.4	0.1
70°-80°	0.3	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	0.7
140°-150°	68.0	4.1
150°-160°	220.9	13.3
160°-170°	336.4	20.3
170°-180°	167.5	10.1
0°-30°	753.3	45.5
0°-40°	830.1	50.2
0°-60°	844.5	51.0
0°-90°	846.2	51.1
90°-120°	1.7	0.1
90°-150°	84.1	5.1
90°-180°	809.0	48.9
0°-180°	1655.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4439	4439	4439	4439	4439	
5°	3691	3691	3691	3691	3691	297
15°	977	977	977	977	977	289
25°	360	360	360	360	360	167
35°	118	118	118	118	118	77
45°	11	11	11	11	11	12
55°	3	3	3	3	3	3
65°	2	2	2	2	2	1
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	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: P1057281

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4438.9	4438.9	4438.9	4438.9	4438.9
1°	4354.8	4354.8	4354.8	4354.8	4354.8
2°	4270.8	4270.8	4270.8	4270.8	4270.8
3°	4121.3	4121.3	4121.3	4121.3	4121.3
4°	3906.2	3906.2	3906.2	3906.2	3906.2
5°	3691.2	3691.2	3691.2	3691.2	3691.2
6°	3377.1	3377.1	3377.1	3377.1	3377.1
7°	3063.0	3063.0	3063.0	3063.0	3063.0
8°	2741.0	2741.0	2741.0	2741.0	2741.0
9°	2410.9	2410.9	2410.9	2410.9	2410.9
10°	2080.8	2080.8	2080.8	2080.8	2080.8
11°	1817.6	1817.6	1817.6	1817.6	1817.6
12°	1554.3	1554.3	1554.3	1554.3	1554.3
13°	1333.5	1333.5	1333.5	1333.5	1333.5
14°	1155.2	1155.2	1155.2	1155.2	1155.2
15°	976.9	976.9	976.9	976.9	976.9
16°	865.1	865.1	865.1	865.1	865.1
17°	753.3	753.3	753.3	753.3	753.3
18°	664.3	664.3	664.3	664.3	664.3
19°	598.1	598.1	598.1	598.1	598.1
20°	532.0	532.0	532.0	532.0	532.0
21°	491.4	491.4	491.4	491.4	491.4
22°	450.8	450.8	450.8	450.8	450.8
23°	416.3	416.3	416.3	416.3	416.3
24°	387.9	387.9	387.9	387.9	387.9
25°	359.5	359.5	359.5	359.5	359.5
26°	335.2	335.2	335.2	335.2	335.2
27°	310.9	310.9	310.9	310.9	310.9
28°	286.6	286.6	286.6	286.6	286.6
29°	262.3	262.3	262.3	262.3	262.3
30°	238.0	238.0	238.0	238.0	238.0
31°	212.8	212.8	212.8	212.8	212.8
32°	187.6	187.6	187.6	187.6	187.6
33°	163.6	163.6	163.6	163.6	163.6
34°	140.9	140.9	140.9	140.9	140.9
35°	118.2	118.2	118.2	118.2	118.2
36°	100.0	100.0	100.0	100.0	100.0
37°	81.8	81.8	81.8	81.8	81.8
38°	66.3	66.3	66.3	66.3	66.3
39°	53.5	53.5	53.5	53.5	53.5
40°	40.7	40.7	40.7	40.7	40.7
41°	33.1	33.1	33.1	33.1	33.1
42°	25.4	25.4	25.4	25.4	25.4
43°	19.5	19.5	19.5	19.5	19.5
44°	15.3	15.3	15.3	15.3	15.3

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
45°	11.2	11.2	11.2	11.2	11.2
46°	9.3	9.3	9.3	9.3	9.3
47°	7.3	7.3	7.3	7.3	7.3
48°	6.1	6.1	6.1	6.1	6.1
49°	5.4	5.4	5.4	5.4	5.4
50°	4.8	4.8	4.8	4.8	4.8
51°	4.2	4.2	4.2	4.2	4.2
52°	3.5	3.5	3.5	3.5	3.5
53°	3.2	3.2	3.2	3.2	3.2
54°	3.2	3.2	3.2	3.2	3.2
55°	3.2	3.2	3.2	3.2	3.2
56°	2.9	2.9	2.9	2.9	2.9
57°	2.6	2.6	2.6	2.6	2.6
58°	2.4	2.4	2.4	2.4	2.4
59°	2.4	2.4	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4
61°	2.1	2.1	2.1	2.1	2.1
62°	1.8	1.8	1.8	1.8	1.8
63°	1.6	1.6	1.6	1.6	1.6
64°	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6
66°	1.3	1.3	1.3	1.3	1.3
67°	1.0	1.0	1.0	1.0	1.0
68°	0.8	0.8	0.8	0.8	0.8
69°	0.8	0.8	0.8	0.8	0.8
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°	0.6	0.6	0.6	0.6	0.6
74°	0.3	0.3	0.3	0.3	0.3
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-930-15L-SP-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-SP-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-SP-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-SP-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	0.00	0.00	0.00	0.15	1.43	0.00	0.00	0.00	0.15	1.43
	3H	0.00	0.00	0.00	0.53	1.82	0.00	0.00	0.00	0.53	1.82
	4H	0.00	0.00	0.00	0.44	1.75	0.00	0.00	0.00	0.44	1.75
	6H	0.00	0.00	0.00	0.29	1.60	0.00	0.00	0.00	0.29	1.60
	8H	0.00	0.00	0.00	0.21	1.52	0.00	0.00	0.00	0.21	1.52
	12H	0.00	0.00	0.00	0.12	1.45	0.00	0.00	0.00	0.12	1.45
4H	2H	0.00	0.00	0.00	0.37	1.68	0.00	0.00	0.00	0.37	1.68
	3H	0.00	0.00	0.50	0.93	2.25	0.00	0.00	0.50	0.93	2.25
	4H	0.00	0.00	0.43	0.81	2.15	0.00	0.00	0.43	0.81	2.15
	6H	0.00	0.00	0.33	0.66	2.00	0.00	0.00	0.33	0.66	2.00
	8H	0.00	0.00	0.26	0.56	1.91	0.00	0.00	0.26	0.56	1.91
	12H	0.00	0.00	0.20	0.47	1.82	0.00	0.00	0.20	0.47	1.82
8H	4H	0.00	0.00	0.32	0.62	1.97	0.00	0.00	0.32	0.62	1.97
	6H	0.00	0.00	0.22	0.48	1.83	0.00	0.00	0.22	0.48	1.83
	8H	0.00	0.00	0.17	0.38	1.74	0.00	0.00	0.17	0.38	1.74
	12H	0.00	0.00	0.10	0.27	1.68	0.00	0.00	0.10	0.27	1.68
12H	4H	0.00	0.00	0.26	0.53	1.88	0.00	0.00	0.26	0.53	1.88
	6H	0.00	0.00	0.17	0.38	1.74	0.00	0.00	0.17	0.38	1.74
	8H	0.00	0.00	0.10	0.27	1.68	0.00	0.00	0.10	0.27	1.68

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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