



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6DR-P29-835-DIM-POE-ON-OF-CS.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN from 12326812.05  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 6/7/2018  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMCAT] 6DR-P20-835-DIM-PoE-ON-OF-CS  
[LUMINAIRE] Black formed aluminum housing, specular reflector, no lens  
[MORE] enclosure  
[LAMP] One white LED  
[BALLAST] Philips XI025C070V054DSM5  
[OTHER] 25 C, 119.973 V, 0.160074 A, 19.0907 W, 0.994073 PF, 59.9705 H  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.18
Spacing Criterion (90-270)	0.18
Spacing Criterion (Diagonal)	0.20
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1357	1357	1357
55	515	515	515
65	175	175	175
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	29655.471
0.5	29331.957
1.0	28280.536
1.5	26797.762
2.0	25112.792
2.5	23360.424
3.0	21486.737
3.5	19505.212
4.0	17402.370
4.5	15286.047
5.0	13250.604
5.5	11591.245
6.0	10260.793
6.5	9171.628
7.0	8248.265
7.5	7455.655
8.0	6762.795
8.5	6154.858
9.0	5621.060
9.5	5154.660
10.0	4752.963
10.5	4405.185
11.0	4099.195
11.5	3836.340
12.0	3607.184
12.5	3407.683
13.0	3235.142
13.5	3085.517
14.0	2954.763
14.5	2840.185
15.0	2739.087
15.5	2648.773
16.0	2566.546
16.5	2492.408
17.0	2425.009
17.5	2361.654
18.0	2306.387
18.5	2255.164
19.0	2203.941
19.5	2152.718
20.0	2100.147
20.5	2044.880
21.0	1986.917
21.5	1924.910
22.0	1854.815
22.5	1777.980
23.0	1693.058
23.5	1606.787
24.0	1524.561
24.5	1447.726
25.0	1376.283
25.5	1307.537
26.0	1245.530
26.5	1188.915

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	1144.432
<b>27.5</b>	1109.384
<b>28.0</b>	1085.121
<b>28.5</b>	1066.249
<b>29.0</b>	1050.073
<b>29.5</b>	1035.246
<b>30.0</b>	1017.722
<b>30.5</b>	981.327
<b>31.0</b>	931.451
<b>31.5</b>	869.445
<b>32.0</b>	802.046
<b>32.5</b>	730.603
<b>33.0</b>	657.812
<b>33.5</b>	576.934
<b>34.0</b>	487.967
<b>34.5</b>	403.045
<b>35.0</b>	326.210
<b>35.5</b>	257.463
<b>36.0</b>	191.413
<b>36.5</b>	133.450
<b>37.0</b>	83.575
<b>37.5</b>	51.223
<b>38.0</b>	36.395
<b>38.5</b>	33.699
<b>39.0</b>	32.351
<b>39.5</b>	31.003
<b>40.0</b>	28.307
<b>40.5</b>	28.307
<b>41.0</b>	26.960
<b>41.5</b>	25.612
<b>42.0</b>	24.264
<b>42.5</b>	22.916
<b>43.0</b>	21.568
<b>43.5</b>	20.220
<b>44.0</b>	20.220
<b>44.5</b>	18.872
<b>45.0</b>	17.524
<b>45.5</b>	17.524
<b>46.0</b>	16.176
<b>46.5</b>	16.176
<b>47.0</b>	14.828
<b>47.5</b>	13.480
<b>48.0</b>	13.480
<b>48.5</b>	12.132
<b>49.0</b>	12.132
<b>49.5</b>	10.784
<b>50.0</b>	10.784
<b>50.5</b>	9.436
<b>51.0</b>	9.436
<b>51.5</b>	8.088
<b>52.0</b>	8.088
<b>52.5</b>	6.740
<b>53.0</b>	6.740
<b>53.5</b>	6.740
<b>54.0</b>	5.392
<b>54.5</b>	5.392

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CANDELA TABULATION - (Cont.)

55.0	5.392
55.5	5.392
56.0	5.392
56.5	4.044
57.0	4.044
57.5	4.044
58.0	4.044
58.5	4.044
59.0	2.696
59.5	2.696
60.0	2.696
60.5	2.696
61.0	2.696
61.5	2.696
62.0	2.696
62.5	2.696
63.0	2.696
63.5	1.348
64.0	1.348
64.5	1.348
65.0	1.348
65.5	1.348
66.0	1.348
66.5	1.348
67.0	1.348
67.5	1.348
68.0	1.348
68.5	1.348
69.0	1.348
69.5	1.348
70.0	1.348
70.5	1.348
71.0	1.348
71.5	1.348
72.0	1.348
72.5	1.348
73.0	1.348
73.5	1.348
74.0	0.000
74.5	0.000
75.0	0.000
75.5	0.000
76.0	0.000
76.5	0.000
77.0	0.000
77.5	0.000
78.0	0.000
78.5	0.000
79.0	0.000
79.5	0.000
80.0	0.000
80.5	0.000
81.0	0.000
81.5	0.000
82.0	0.000
82.5	0.000

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CANDELA TABULATION - (Cont.)

83.0	0.000
83.5	0.000
84.0	0.000
84.5	0.000
85.0	0.000
85.5	0.000
86.0	0.000
86.5	0.000
87.0	0.000
87.5	0.000
88.0	0.000
88.5	0.000
89.0	0.000
89.5	0.000
90.0	0.000
90.5	0.000
91.0	0.000
91.5	0.000
92.0	0.000
92.5	0.000
93.0	0.000
93.5	0.000
94.0	0.000
94.5	0.000
95.0	0.000
95.5	0.000
96.0	0.000
96.5	0.000
97.0	0.000
97.5	0.000
98.0	0.000
98.5	0.000
99.0	0.000
99.5	0.000
100.0	0.000
100.5	0.000
101.0	0.000
101.5	0.000
102.0	0.000
102.5	0.000
103.0	0.000
103.5	0.000
104.0	0.000
104.5	0.000
105.0	0.000
105.5	0.000
106.0	0.000
106.5	0.000
107.0	0.000
107.5	0.000
108.0	0.000
108.5	0.000
109.0	0.000
109.5	0.000
110.0	0.000
110.5	0.000

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

111.0	0.000
111.5	0.000
112.0	0.000
112.5	0.000
113.0	0.000
113.5	0.000
114.0	0.000
114.5	0.000
115.0	0.000
115.5	0.000
116.0	0.000
116.5	0.000
117.0	0.000
117.5	0.000
118.0	0.000
118.5	0.000
119.0	0.000
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126.5	0.000
127.0	0.000
127.5	0.000
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128.5	0.000
129.0	0.000
129.5	0.000
130.0	0.000
130.5	0.000
131.0	0.000
131.5	0.000
132.0	0.000
132.5	0.000
133.0	0.000
133.5	0.000
134.0	0.000
134.5	0.000
135.0	0.000
135.5	0.000
136.0	0.000
136.5	0.000
137.0	0.000
137.5	0.000
138.0	0.000
138.5	0.000

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CANDELA TABULATION - (Cont.)

139.0	0.000
139.5	0.000
140.0	0.000
140.5	0.000
141.0	0.000
141.5	0.000
142.0	0.000
142.5	0.000
143.0	0.000
143.5	0.000
144.0	0.000
144.5	0.000
145.0	0.000
145.5	0.000
146.0	0.000
146.5	0.000
147.0	0.000
147.5	0.000
148.0	0.000
148.5	0.000
149.0	0.000
149.5	0.000
150.0	0.000
150.5	0.000
151.0	0.000
151.5	0.000
152.0	0.000
152.5	0.000
153.0	0.000
153.5	0.000
154.0	0.000
154.5	0.000
155.0	0.000
155.5	0.000
156.0	0.000
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160.5	0.000
161.0	0.000
161.5	0.000
162.0	0.000
162.5	0.000
163.0	0.000
163.5	0.000
164.0	0.000
164.5	0.000
165.0	0.000
165.5	0.000
166.0	0.000
166.5	0.000

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**CANDELA TABULATION - (Cont.)**

167.0	0.000
167.5	0.000
168.0	0.000
168.5	0.000
169.0	0.000
169.5	0.000
170.0	0.000
170.5	0.000
171.0	0.000
171.5	0.000
172.0	0.000
172.5	0.000
173.0	0.000
173.5	0.000
174.0	0.000
174.5	0.000
175.0	0.000
175.5	0.000
176.0	0.000
176.5	0.000
177.0	0.000
177.5	0.000
178.0	0.000
178.5	0.000
179.0	0.000
179.5	0.000
180.0	0.000



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1813.95	N.A.	66.40
0-30	2468.49	N.A.	90.40
0-40	2708.99	N.A.	99.20
0-60	2728.29	N.A.	99.90
0-80	2730.58	N.A.	100.00
0-90	2730.58	N.A.	100.00
10-90	1717.41	N.A.	62.90
20-40	895.04	N.A.	32.80
20-50	909.27	N.A.	33.30
40-70	21.06	N.A.	0.80
60-80	2.29	N.A.	0.10
70-80	0.53	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2730.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1013.17
10-20	800.78
20-30	654.54
30-40	240.51
40-50	14.22
50-60	5.07
60-70	1.76
70-80	0.53
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

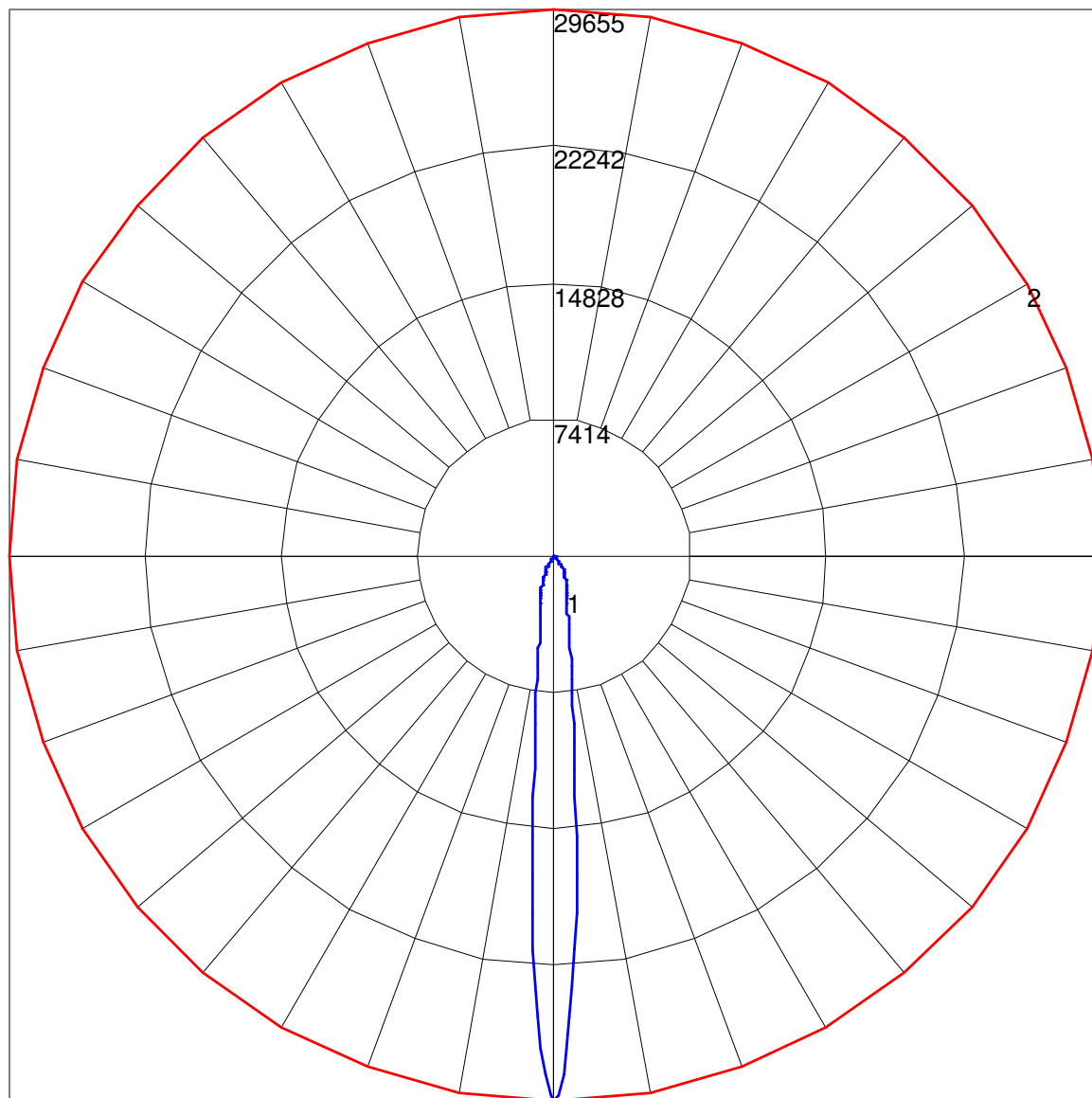
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	160	160	160	160	157	157	157	157	150	150	150	143	143	143	138	138	138	135
1	155	152	149	147	152	149	147	144	144	142	140	139	137	136	134	133	132	130
2	149	144	140	137	147	142	138	135	138	135	132	134	131	129	130	128	127	125
3	144	138	133	128	142	136	131	127	133	129	125	129	126	124	127	124	122	120
4	139	132	126	122	137	130	125	121	128	123	120	125	121	118	123	120	117	115
5	135	126	121	116	133	125	120	116	123	118	115	121	117	114	119	116	113	111
6	131	122	116	111	129	121	115	111	119	114	110	117	113	110	116	112	109	108
7	127	117	111	107	125	117	111	107	115	110	106	114	109	106	112	108	105	104
8	123	113	107	103	121	113	107	103	111	106	103	110	106	102	109	105	102	101
9	119	110	104	100	118	109	104	100	108	103	99	107	102	99	106	102	99	98
10	116	106	101	97	115	106	100	97	105	100	96	104	99	96	103	99	96	95

POLAR GRAPH



Maximum Candela = 29655.471 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)