



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-L13-8TW-DIM-UNV-ON-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from 12326812.05
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 6/7/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-L13-8TW-DIM-UNV-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	1345056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92127
Total Luminaire Watts	14.6
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	668590	668590	668590
55	253612	253612	253612
65	86050	86050	86050
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	14608000
0.5	14448640
1.0	13930720
1.5	13200320
2.0	12370320
2.5	11507120
3.0	10584160
3.5	9608080
4.0	8572240
4.5	7529760
5.0	6527120
5.5	5709736
6.0	5054368
6.5	4517856
7.0	4063016
7.5	3672584
8.0	3331288
8.5	3031824
9.0	2768880
9.5	2539136
10.0	2341264
10.5	2169952
11.0	2019224
11.5	1889744
12.0	1776864
12.5	1678592
13.0	1593600
13.5	1519896
14.0	1455488
14.5	1399048
15.0	1349248
15.5	1304760
16.0	1264256
16.5	1227736
17.0	1194536
17.5	1163328
18.0	1136104
18.5	1110872
19.0	1085640
19.5	1060408
20.0	1034512
20.5	1007288
21.0	978736
21.5	948192
22.0	913664
22.5	875816
23.0	833984
23.5	791488
24.0	750984
24.5	713136
25.0	677944
25.5	644080
26.0	613536
26.5	585648

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CANDELA TABULATION - (Cont.)

27.0	563736
27.5	546472
28.0	534520
28.5	525224
29.0	517256
29.5	509952
30.0	501320
30.5	483392
31.0	458824
31.5	428280
32.0	395080
32.5	359888
33.0	324032
33.5	284192
34.0	240368
34.5	198536
35.0	160688
35.5	126824
36.0	94288
36.5	65736
37.0	41168
37.5	25232
38.0	17928
38.5	16600
39.0	15936
39.5	15272
40.0	13944
40.5	13944
41.0	13280
41.5	12616
42.0	11952
42.5	11288
43.0	10624
43.5	9960
44.0	9960
44.5	9296
45.0	8632
45.5	8632
46.0	7968
46.5	7968
47.0	7304
47.5	6640
48.0	6640
48.5	5976
49.0	5976
49.5	5312
50.0	5312
50.5	4648
51.0	4648
51.5	3984
52.0	3984
52.5	3320
53.0	3320
53.5	3320
54.0	2656
54.5	2656

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CANDELA TABULATION - (Cont.)

55.0	2656
55.5	2656
56.0	2656
56.5	1992
57.0	1992
57.5	1992
58.0	1992
58.5	1992
59.0	1328
59.5	1328
60.0	1328
60.5	1328
61.0	1328
61.5	1328
62.0	1328
62.5	1328
63.0	1328
63.5	664
64.0	664
64.5	664
65.0	664
65.5	664
66.0	664
66.5	664
67.0	664
67.5	664
68.0	664
68.5	664
69.0	664
69.5	664
70.0	664
70.5	664
71.0	664
71.5	664
72.0	664
72.5	664
73.0	664
73.5	664
74.0	0
74.5	0
75.0	0
75.5	0
76.0	0
76.5	0
77.0	0
77.5	0
78.0	0
78.5	0
79.0	0
79.5	0
80.0	0
80.5	0
81.0	0
81.5	0
82.0	0
82.5	0

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CANDELA TABULATION - (Cont.)

83.0	0
83.5	0
84.0	0
84.5	0
85.0	0
85.5	0
86.0	0
86.5	0
87.0	0
87.5	0
88.0	0
88.5	0
89.0	0
89.5	0
90.0	0
90.5	0
91.0	0
91.5	0
92.0	0
92.5	0
93.0	0
93.5	0
94.0	0
94.5	0
95.0	0
95.5	0
96.0	0
96.5	0
97.0	0
97.5	0
98.0	0
98.5	0
99.0	0
99.5	0
100.0	0
100.5	0
101.0	0
101.5	0
102.0	0
102.5	0
103.0	0
103.5	0
104.0	0
104.5	0
105.0	0
105.5	0
106.0	0
106.5	0
107.0	0
107.5	0
108.0	0
108.5	0
109.0	0
109.5	0
110.0	0
110.5	0

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CANDELA TABULATION - (Cont.)

111.0	0
111.5	0
112.0	0
112.5	0
113.0	0
113.5	0
114.0	0
114.5	0
115.0	0
115.5	0
116.0	0
116.5	0
117.0	0
117.5	0
118.0	0
118.5	0
119.0	0
119.5	0
120.0	0
120.5	0
121.0	0
121.5	0
122.0	0
122.5	0
123.0	0
123.5	0
124.0	0
124.5	0
125.0	0
125.5	0
126.0	0
126.5	0
127.0	0
127.5	0
128.0	0
128.5	0
129.0	0
129.5	0
130.0	0
130.5	0
131.0	0
131.5	0
132.0	0
132.5	0
133.0	0
133.5	0
134.0	0
134.5	0
135.0	0
135.5	0
136.0	0
136.5	0
137.0	0
137.5	0
138.0	0
138.5	0

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CANDELA TABULATION - (Cont.)

139.0	0
139.5	0
140.0	0
140.5	0
141.0	0
141.5	0
142.0	0
142.5	0
143.0	0
143.5	0
144.0	0
144.5	0
145.0	0
145.5	0
146.0	0
146.5	0
147.0	0
147.5	0
148.0	0
148.5	0
149.0	0
149.5	0
150.0	0
150.5	0
151.0	0
151.5	0
152.0	0
152.5	0
153.0	0
153.5	0
154.0	0
154.5	0
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155.5	0
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156.5	0
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157.5	0
158.0	0
158.5	0
159.0	0
159.5	0
160.0	0
160.5	0
161.0	0
161.5	0
162.0	0
162.5	0
163.0	0
163.5	0
164.0	0
164.5	0
165.0	0
165.5	0
166.0	0
166.5	0

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167.0	0
167.5	0
168.0	0
168.5	0
169.0	0
169.5	0
170.0	0
170.5	0
171.0	0
171.5	0
172.0	0
172.5	0
173.0	0
173.5	0
174.0	0
174.5	0
175.0	0
175.5	0
176.0	0
176.5	0
177.0	0
177.5	0
178.0	0
178.5	0
179.0	0
179.5	0
180.0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	893533.8	N.A.	66.40
0-30	1215952.00	N.A.	90.40
0-40	1334423.00	N.A.	99.20
0-60	1343930.00	N.A.	99.90
0-80	1345056.00	N.A.	100.00
0-90	1345056.00	N.A.	100.00
10-90	845980.6	N.A.	62.90
20-40	440889.6	N.A.	32.80
20-50	447896.3	N.A.	33.30
40-70	10373.48	N.A.	0.80
60-80	1126.78	N.A.	0.10
70-80	259.47	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	1345056.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	499075.7
10-20	394458.1
20-30	322418.6
30-40	118470.9
40-50	7006.7
50-60	2499.47
60-70	867.31
70-80	259.47
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

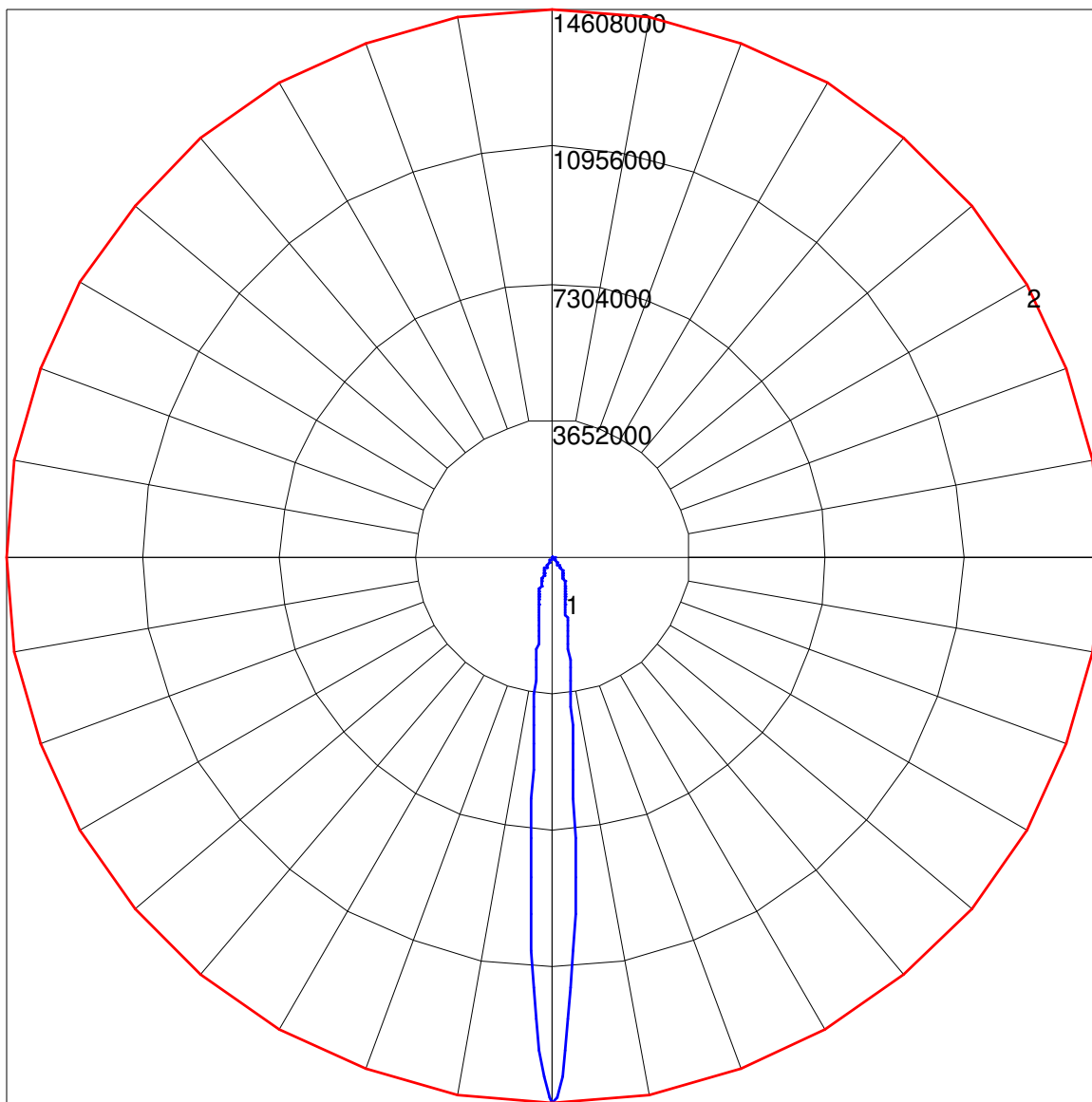
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	79035035035035	77197197197197	73766766766766	7062706270627	67745745745745	66390															0
1	76247824782478	746593692206153	70729868977	68297586936	66045565016	63892															0
2	7356710629907248	72189958096506	67883375073	65974764706	64268262400	61420															0
3	71087783283281	69886964682781	65273372810	637421840872	623801059967	59081															0
4	68654882135030	675841881659685	62860759009	61629858353	60452957714	56892															0
5	66462259456280	65479759037036	60632325556	596276458087	586546955629	54854															0
6	64299932054899	63459466754722	58558169374	57735639033	56952126698	52961															0
7	62357789852799	615823974632669	56654192413	55953782160	55293357912	51205															0
8	60455832920924	59795552750826	54852398634	54252058444	537247450257	49577															0
9	587594031169232	58158750029158	53250749012	52750472867	52250208723	48068															0
10	570623749567696	56552139448639	516792487525	512489967413	50828779302	46669															0

POLAR GRAPH



Maximum Candela = 14608000 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.)