



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L40-835-DIM-UNV-O-W-OF-CS.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 12326812.19  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 6/6/2018  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L40-835-DIM-UNV-O-W-OF-CS  
 [LUMINAIRE] Black formed aluminum housing, specular reflector, no lens  
 [MORE] enclosure  
 [LAMP] One white LED  
 [BALLAST] Philips XI036C100V054DSM5  
 [OTHER] 24 C, 119.992 V, 0.304656 A, 36.4646 W, 0.997493 PF, 59.9994 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	3993
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	36.4646
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	0.96
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	9976	9976	9976
55	4851	4851	4851
65	1711	1711	1711
75	466	466	466
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0.0	4406.0
0.5	4397.0
1.0	4377.0
1.5	4333.0
2.0	4275.0
2.5	4188.0
3.0	4085.0
3.5	3985.0
4.0	3889.0
4.5	3805.0
5.0	3710.0
5.5	3622.0
6.0	3559.0
6.5	3518.0
7.0	3495.0
7.5	3484.0
8.0	3483.0
8.5	3488.0
9.0	3496.0
9.5	3507.0
10.0	3519.0
10.5	3527.0
11.0	3531.0
11.5	3531.0
12.0	3526.0
12.5	3517.0
13.0	3503.0
13.5	3487.0
14.0	3469.0
14.5	3450.0
15.0	3431.0
15.5	3415.0
16.0	3402.0
16.5	3391.0
17.0	3382.0
17.5	3377.0
18.0	3377.0
18.5	3379.0
19.0	3384.0
19.5	3389.0
20.0	3393.0
20.5	3398.0
21.0	3402.0
21.5	3407.0
22.0	3412.0
22.5	3418.0
23.0	3428.0
23.5	3439.0
24.0	3452.0
24.5	3467.0
25.0	3485.0
25.5	3503.0
26.0	3519.0
26.5	3529.0

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**CANDELA TABULATION - (Cont.)**

<b>27.0</b>	3535.0
<b>27.5</b>	3534.0
<b>28.0</b>	3524.0
<b>28.5</b>	3508.0
<b>29.0</b>	3474.0
<b>29.5</b>	3414.0
<b>30.0</b>	3327.0
<b>30.5</b>	3214.0
<b>31.0</b>	3079.0
<b>31.5</b>	2915.0
<b>32.0</b>	2718.0
<b>32.5</b>	2494.0
<b>33.0</b>	2253.0
<b>33.5</b>	2005.0
<b>34.0</b>	1758.0
<b>34.5</b>	1516.0
<b>35.0</b>	1289.0
<b>35.5</b>	1081.0
<b>36.0</b>	897.9
<b>36.5</b>	737.5
<b>37.0</b>	599.4
<b>37.5</b>	493.1
<b>38.0</b>	414.5
<b>38.5</b>	353.7
<b>39.0</b>	302.1
<b>39.5</b>	260.6
<b>40.0</b>	230.7
<b>40.5</b>	209.3
<b>41.0</b>	193.7
<b>41.5</b>	181.6
<b>42.0</b>	171.4
<b>42.5</b>	162.4
<b>43.0</b>	154.4
<b>43.5</b>	147.1
<b>44.0</b>	140.5
<b>44.5</b>	134.4
<b>45.0</b>	128.8
<b>45.5</b>	123.5
<b>46.0</b>	118.5
<b>46.5</b>	113.8
<b>47.0</b>	109.3
<b>47.5</b>	105.0
<b>48.0</b>	100.9
<b>48.5</b>	96.8
<b>49.0</b>	93.0
<b>49.5</b>	89.2
<b>50.0</b>	85.3
<b>50.5</b>	81.6
<b>51.0</b>	77.9
<b>51.5</b>	74.2
<b>52.0</b>	70.6
<b>52.5</b>	67.0
<b>53.0</b>	63.6
<b>53.5</b>	60.2
<b>54.0</b>	56.9
<b>54.5</b>	53.8

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**CANDELA TABULATION - (Cont.)**

<b>55.0</b>	50.8
<b>55.5</b>	47.8
<b>56.0</b>	45.0
<b>56.5</b>	42.3
<b>57.0</b>	39.8
<b>57.5</b>	37.4
<b>58.0</b>	35.1
<b>58.5</b>	32.9
<b>59.0</b>	30.8
<b>59.5</b>	28.8
<b>60.0</b>	26.9
<b>60.5</b>	25.2
<b>61.0</b>	23.5
<b>61.5</b>	21.9
<b>62.0</b>	20.4
<b>62.5</b>	19.0
<b>63.0</b>	17.7
<b>63.5</b>	16.5
<b>64.0</b>	15.3
<b>64.5</b>	14.2
<b>65.0</b>	13.2
<b>65.5</b>	12.2
<b>66.0</b>	11.3
<b>66.5</b>	10.5
<b>67.0</b>	9.7
<b>67.5</b>	9.0
<b>68.0</b>	8.3
<b>68.5</b>	7.7
<b>69.0</b>	7.0
<b>69.5</b>	6.5
<b>70.0</b>	6.0
<b>70.5</b>	5.5
<b>71.0</b>	5.0
<b>71.5</b>	4.6
<b>72.0</b>	4.2
<b>72.5</b>	3.8
<b>73.0</b>	3.4
<b>73.5</b>	3.1
<b>74.0</b>	2.8
<b>74.5</b>	2.5
<b>75.0</b>	2.2
<b>75.5</b>	2.0
<b>76.0</b>	1.7
<b>76.5</b>	1.5
<b>77.0</b>	1.3
<b>77.5</b>	1.1
<b>78.0</b>	1.0
<b>78.5</b>	0.8
<b>79.0</b>	0.7
<b>79.5</b>	0.5
<b>80.0</b>	0.4
<b>80.5</b>	0.3
<b>81.0</b>	0.2
<b>81.5</b>	0.1
<b>82.0</b>	0.1
<b>82.5</b>	0.0

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**CANDELA TABULATION - (Cont.)**

83.0	0.0
83.5	0.0
84.0	0.0
84.5	0.0
85.0	0.0
85.5	0.0
86.0	0.0
86.5	0.0
87.0	0.0
87.5	0.0
88.0	0.0
88.5	0.0
89.0	0.0
89.5	0.0
90.0	0.0
90.5	0.0
91.0	0.0
91.5	0.0
92.0	0.0
92.5	0.0
93.0	0.0
93.5	0.0
94.0	0.0
94.5	0.0
95.0	0.0
95.5	0.0
96.0	0.0
96.5	0.0
97.0	0.0
97.5	0.0
98.0	0.0
98.5	0.0
99.0	0.0
99.5	0.0
100.0	0.0
100.5	0.0
101.0	0.0
101.5	0.0
102.0	0.0
102.5	0.0
103.0	0.0
103.5	0.0
104.0	0.0
104.5	0.0
105.0	0.0
105.5	0.0
106.0	0.0
106.5	0.0
107.0	0.0
107.5	0.0
108.0	0.0
108.5	0.0
109.0	0.0
109.5	0.0
110.0	0.0
110.5	0.0

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CANDELA TABULATION - (Cont.)

111.0	0.0
111.5	0.0
112.0	0.0
112.5	0.0
113.0	0.0
113.5	0.0
114.0	0.0
114.5	0.0
115.0	0.0
115.5	0.0
116.0	0.0
116.5	0.0
117.0	0.0
117.5	0.0
118.0	0.0
118.5	0.0
119.0	0.0
119.5	0.0
120.0	0.0
120.5	0.0
121.0	0.0
121.5	0.0
122.0	0.0
122.5	0.0
123.0	0.0
123.5	0.0
124.0	0.0
124.5	0.0
125.0	0.0
125.5	0.0
126.0	0.0
126.5	0.0
127.0	0.0
127.5	0.0
128.0	0.0
128.5	0.0
129.0	0.0
129.5	0.0
130.0	0.0
130.5	0.0
131.0	0.0
131.5	0.0
132.0	0.0
132.5	0.0
133.0	0.0
133.5	0.0
134.0	0.0
134.5	0.0
135.0	0.0
135.5	0.0
136.0	0.0
136.5	0.0
137.0	0.0
137.5	0.0
138.0	0.0
138.5	0.0

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CANDELA TABULATION - (Cont.)

139.0	0.0
139.5	0.0
140.0	0.0
140.5	0.0
141.0	0.0
141.5	0.0
142.0	0.0
142.5	0.0
143.0	0.0
143.5	0.0
144.0	0.0
144.5	0.0
145.0	0.0
145.5	0.0
146.0	0.0
146.5	0.0
147.0	0.0
147.5	0.0
148.0	0.0
148.5	0.0
149.0	0.0
149.5	0.0
150.0	0.0
150.5	0.0
151.0	0.0
151.5	0.0
152.0	0.0
152.5	0.0
153.0	0.0
153.5	0.0
154.0	0.0
154.5	0.0
155.0	0.0
155.5	0.0
156.0	0.0
156.5	0.0
157.0	0.0
157.5	0.0
158.0	0.0
158.5	0.0
159.0	0.0
159.5	0.0
160.0	0.0
160.5	0.0
161.0	0.0
161.5	0.0
162.0	0.0
162.5	0.0
163.0	0.0
163.5	0.0
164.0	0.0
164.5	0.0
165.0	0.0
165.5	0.0
166.0	0.0
166.5	0.0

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**CANDELA TABULATION - (Cont.)**

167.0	0.0
167.5	0.0
168.0	0.0
168.5	0.0
169.0	0.0
169.5	0.0
170.0	0.0
170.5	0.0
171.0	0.0
171.5	0.0
172.0	0.0
172.5	0.0
173.0	0.0
173.5	0.0
174.0	0.0
174.5	0.0
175.0	0.0
175.5	0.0
176.0	0.0
176.5	0.0
177.0	0.0
177.5	0.0
178.0	0.0
178.5	0.0
179.0	0.0
179.5	0.0
180.0	0.0



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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1321.56	N.A.	33.10
0-30	2924.67	N.A.	73.20
0-40	3825.72	N.A.	95.80
0-60	3976.75	N.A.	99.60
0-80	3993.45	N.A.	100.00
0-90	3993.5	N.A.	100.00
10-90	3645.76	N.A.	91.30
20-40	2504.17	N.A.	62.70
20-50	2608.51	N.A.	65.30
40-70	165.05	N.A.	4.10
60-80	16.70	N.A.	0.40
70-80	2.67	N.A.	0.10
80-90	0.05	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	3993.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	347.73
10-20	973.82
20-30	1603.12
30-40	901.05
40-50	104.34
50-60	46.68
60-70	14.03
70-80	2.67
80-90	0.05
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

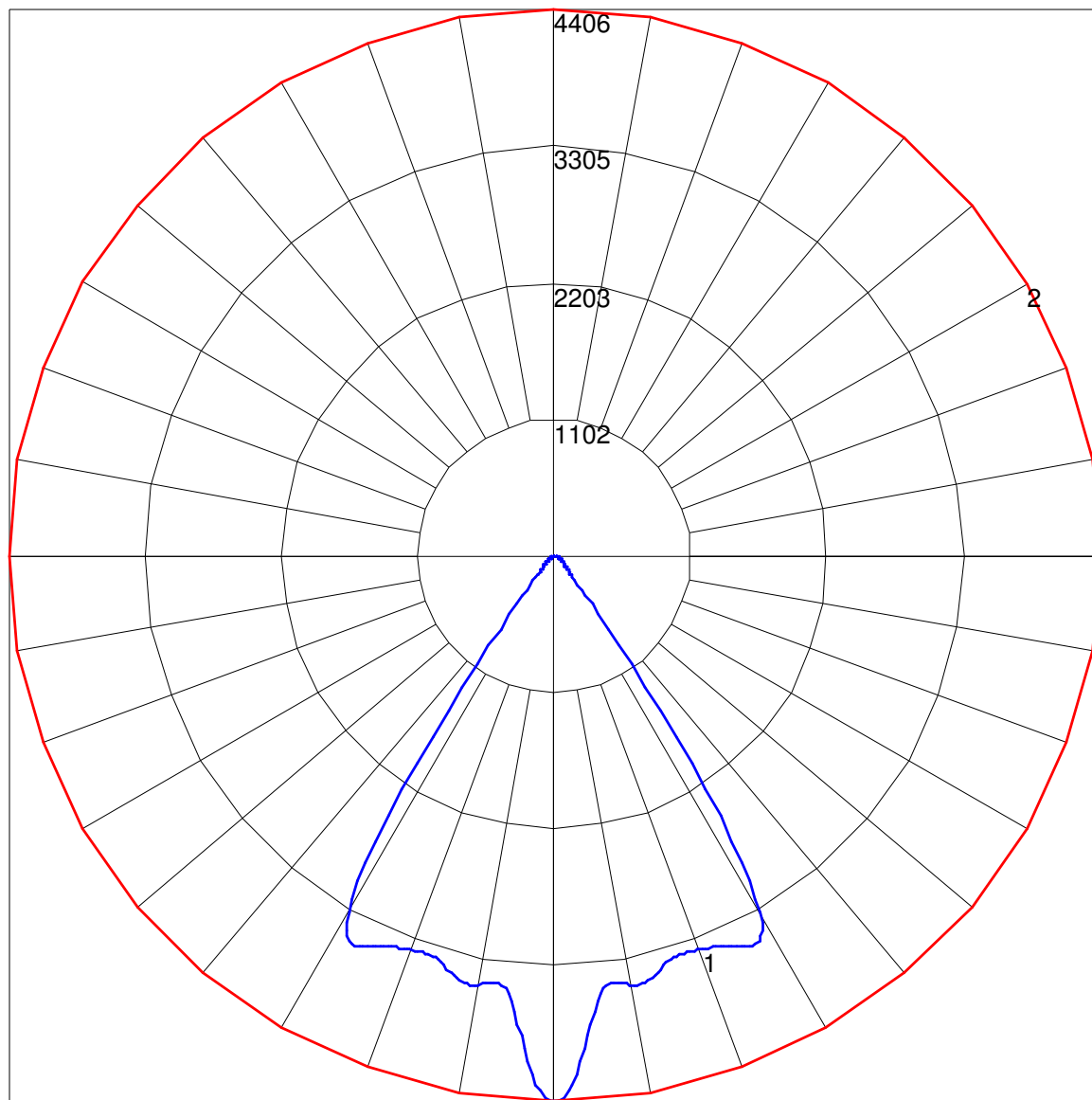
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	79	73	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	71	62	56	52	70	61	55	52	60	55	52	60	55	51	59	54	51	50

POLAR GRAPH



Maximum Candela = 4406 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.)