



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-940-DIM-UNV-LW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM 12326812.07

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 11/16/2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 6DR-TL-L30-940-DIM-UNV-LW-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear glas

[MORE] s patterned lens enclosure

[LAMP] One white LED

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	26.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.46 ft (Diameter)
Luminous Width (90-270)	0.46 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	32589	32589	32589
55	27131	27131	27131
65	20612	20612	20612
75	14948	14948	14948
85	9741	9741	9741

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CANDELA TABULATION

	<u>0</u>
0.0	1247.031
0.5	1246.779
1.0	1245.775
1.5	1244.269
2.0	1242.385
2.5	1239.875
3.0	1237.364
3.5	1234.476
4.0	1231.840
4.5	1229.203
5.0	1227.320
5.5	1225.563
6.0	1223.930
6.5	1222.298
7.0	1220.541
7.5	1218.909
8.0	1217.277
8.5	1215.770
9.0	1214.264
9.5	1213.008
10.0	1211.753
10.5	1210.748
11.0	1209.869
11.5	1209.367
12.0	1208.488
12.5	1207.610
13.0	1206.354
13.5	1204.722
14.0	1202.713
14.5	1200.454
15.0	1198.068
15.5	1195.055
16.0	1191.791
16.5	1188.527
17.0	1185.263
17.5	1181.873
18.0	1178.232
18.5	1174.089
19.0	1169.444
19.5	1164.297
20.0	1158.396
20.5	1151.994
21.0	1144.084
21.5	1134.669
22.0	1123.997
22.5	1111.945
23.0	1098.763
23.5	1084.451
24.0	1068.632
24.5	1051.558
25.0	1033.103
25.5	1013.895
26.0	993.431
26.5	972.089

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**CANDELA TABULATION - (Cont.)**

27.0	949.365
27.5	926.014
28.0	901.407
28.5	875.420
29.0	848.428
29.5	820.055
30.0	790.928
30.5	760.923
31.0	730.918
31.5	700.662
32.0	671.285
32.5	643.163
33.0	616.171
33.5	590.937
34.0	567.711
34.5	546.619
35.0	527.788
35.5	510.463
36.0	495.272
36.5	481.336
37.0	468.908
37.5	457.734
38.0	447.565
38.5	438.275
39.0	429.487
39.5	421.577
40.0	413.919
40.5	406.763
41.0	400.109
41.5	393.581
42.0	387.304
42.5	381.529
43.0	375.628
43.5	369.853
44.0	364.204
44.5	358.680
45.0	353.030
45.5	347.632
46.0	342.108
46.5	336.584
47.0	330.935
47.5	325.411
48.0	319.761
48.5	314.112
49.0	308.462
49.5	302.562
50.0	296.912
50.5	291.137
51.0	285.362
51.5	279.461
52.0	273.561
52.5	267.660
53.0	261.760
53.5	255.859
54.0	250.210
54.5	244.435

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**CANDELA TABULATION - (Cont.)**

55.0	238.408
55.5	232.508
56.0	226.607
56.5	221.083
57.0	215.559
57.5	209.784
58.0	204.009
58.5	198.360
59.0	192.836
59.5	187.312
60.0	182.039
60.5	176.766
61.0	171.619
61.5	166.472
62.0	161.575
62.5	156.679
63.0	151.908
63.5	147.138
64.0	142.493
64.5	137.973
65.0	133.453
65.5	129.059
66.0	124.678
66.5	120.372
67.0	116.116
67.5	111.948
68.0	107.855
68.5	103.750
69.0	99.770
69.5	95.828
70.0	91.999
70.5	88.295
71.0	84.667
71.5	81.152
72.0	77.762
72.5	74.473
73.0	71.271
73.5	68.133
74.0	65.120
74.5	62.169
75.0	59.269
75.5	56.470
76.0	53.720
76.5	51.021
77.0	48.397
77.5	45.824
78.0	43.325
78.5	40.877
79.0	38.479
79.5	36.169
80.0	33.872
80.5	31.650
81.0	29.453
81.5	27.268
82.0	25.134
82.5	23.012

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CANDELA TABULATION - (Cont.)

83.0	20.941
83.5	18.907
84.0	16.898
84.5	14.927
85.0	13.006
85.5	11.148
86.0	9.353
86.5	7.621
87.0	5.938
87.5	4.532
88.0	3.465
88.5	2.536
89.0	1.758
89.5	1.105
90.0	0.703
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

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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
119.5	0.000
120.0	0.000
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124.5	0.000
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125.5	0.000
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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
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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
156.5	0.000
157.0	0.000
157.5	0.000
158.0	0.000
158.5	0.000
159.0	0.000
159.5	0.000
160.0	0.000
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	454.25	N.A.	23.20
0-30	918.23	N.A.	46.80
0-40	1262.27	N.A.	64.40
0-60	1748.05	N.A.	89.20
0-80	1944.82	N.A.	99.20
0-90	1960.37	N.A.	100.00
10-90	1843.67	N.A.	94.00
20-40	808.02	N.A.	41.20
20-50	1080.64	N.A.	55.10
40-70	618.81	N.A.	31.60
60-80	196.77	N.A.	10.00
70-80	63.74	N.A.	3.30
80-90	15.55	N.A.	0.80
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1960.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	116.70
10-20	337.56
20-30	463.98
30-40	344.04
40-50	272.62
50-60	213.16
60-70	133.03
70-80	63.74
80-90	15.55
90-100	0.02
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	72	66	87	78	71	65	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

X=2H	Y=2H	21.4	22.8	21.8	23.1	23.4	21.4	22.8	21.8	23.1	23.4
	3H	22.6	23.9	23.0	24.2	24.5	22.6	23.9	23.0	24.2	24.5
	4H	23.0	24.2	23.4	24.5	24.9	23.0	24.2	23.4	24.5	24.9
	6H	23.3	24.3	23.7	24.7	25.1	23.3	24.3	23.7	24.7	25.1
	8H	23.3	24.4	23.8	24.8	25.2	23.3	24.4	23.8	24.8	25.2
	12H	23.4	24.4	23.8	24.7	25.2	23.4	24.4	23.8	24.7	25.2

### UGR Viewed Endwise

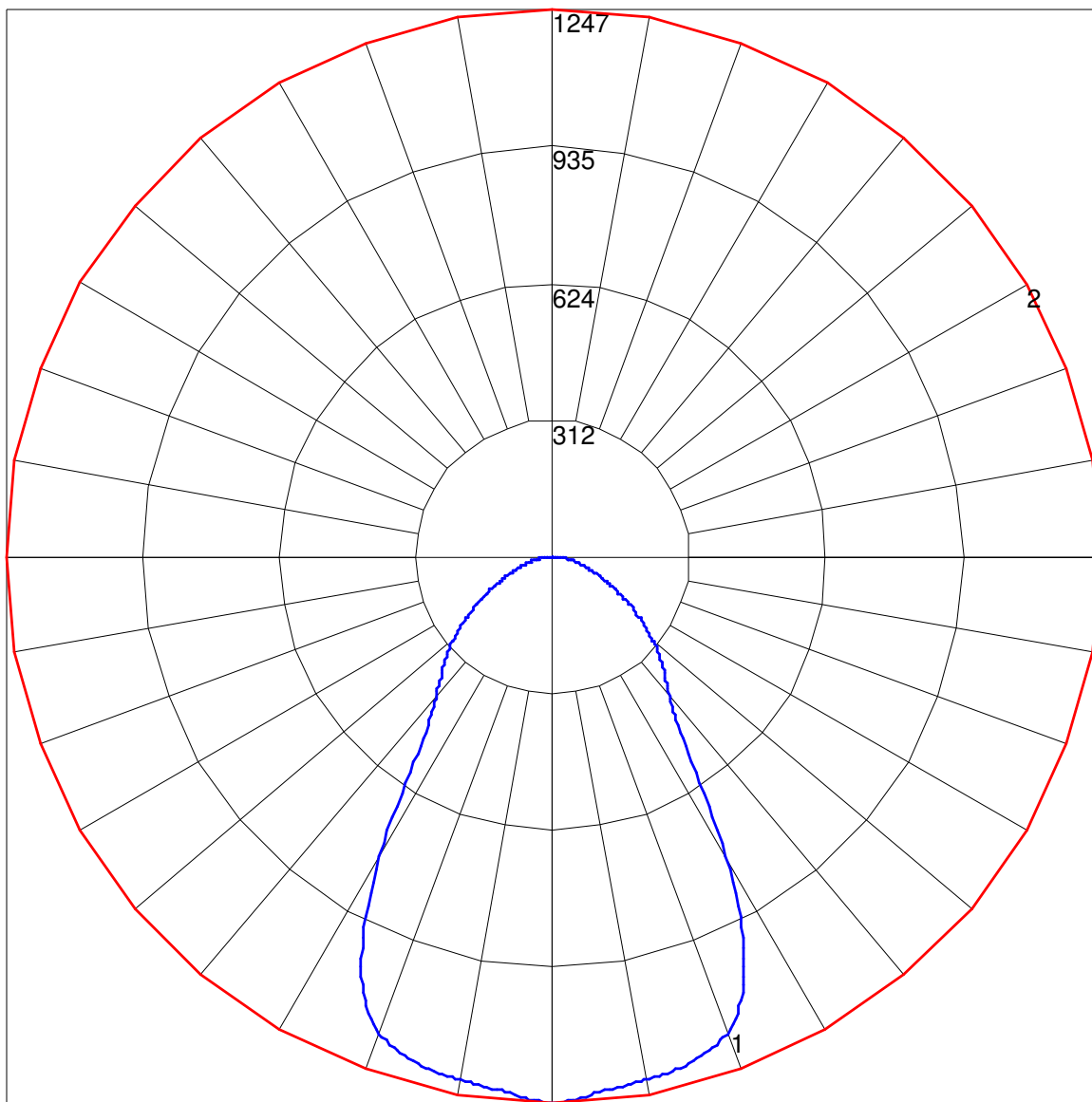
4H	2H	21.8	23.0	22.2	23.3	23.7	21.8	23.0	22.2	23.3	23.7
	3H	23.2	24.2	23.6	24.6	25.0	23.2	24.2	23.6	24.6	25.0
	4H	23.7	24.6	24.1	25.0	25.4	23.7	24.6	24.1	25.0	25.4
	6H	24.1	24.8	24.6	25.3	25.7	24.1	24.8	24.6	25.3	25.7
	8H	24.2	24.9	24.6	25.3	25.8	24.2	24.9	24.6	25.3	25.8
	12H	24.3	24.9	24.7	25.4	25.8	24.3	24.9	24.7	25.4	25.8

8H	4H	23.9	24.6	24.3	25.0	25.5	23.9	24.6	24.3	25.0	25.5
	6H	24.3	24.9	24.8	25.4	25.9	24.3	24.9	24.8	25.4	25.9
	8H	24.5	25.0	25.0	25.5	26.0	24.5	25.0	25.0	25.5	26.0
	12H	24.6	25.1	25.1	25.6	26.1	24.6	25.1	25.1	25.6	26.1

12H	4H	23.9	24.5	24.3	25.0	25.4	23.9	24.5	24.3	25.0	25.4
	6H	24.4	24.9	24.9	25.3	25.9	24.4	24.9	24.9	25.3	25.9
	8H	24.6	25.0	25.1	25.5	26.1	24.6	25.0	25.1	25.5	26.1

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 1247.031 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.)