



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L8-9DW-DIM-UNV-OW-OF-CS\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20389.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC WIDE TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-L8-9DW-DIM-UNV-OW-OF-CS\_0 DEG TILT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Industrial, Office, Direct, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	768
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	14
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.82
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	263	204	350
55	0	36	72
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	1041.075	1041.075	1041.075	1041.075	1041.075	1041.075	1041.075	1041.075	1041.075
<b>5</b>	1045.218	1041.828	1039.945	1036.932	1033.165	1029.775	1024.125	1019.982	1017.346
<b>10</b>	1061.038	1056.141	1048.231	1042.958	1042.205	1041.452	1033.918	1026.762	1018.476
<b>15</b>	1059.154	1049.738	1038.438	1022.619	1014.332	1007.176	994.370	967.627	956.328
<b>20</b>	974.784	986.460	954.068	947.664	934.858	911.506	889.660	877.983	855.761
<b>25</b>	721.295	699.449	719.788	700.202	685.889	641.067	635.417	626.754	613.195
<b>30</b>	417.334	422.230	397.748	371.005	367.239	358.952	342.380	328.820	314.130
<b>35</b>	98.307	90.397	76.084	86.254	76.084	73.824	73.824	66.668	77.591
<b>40</b>	21.093	18.833	16.949	17.703	19.586	18.456	18.079	18.079	15.443
<b>45</b>	3.390	2.637	2.637	3.767	4.520	4.897	4.143	4.897	4.143
<b>50</b>	1.130	0.753	0.377	0.753	1.130	1.507	1.130	1.507	1.507
<b>55</b>	0.000	0.000	0.377	0.377	0.753	0.377	0.000	0.753	0.377
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	380.69	N.A.	49.60
0-30	680.19	N.A.	88.60
0-40	762.38	N.A.	99.30
0-60	767.88	N.A.	100.00
0-80	767.88	N.A.	100.00
0-90	767.88	N.A.	100.00
10-90	668.92	N.A.	87.10
20-40	381.69	N.A.	49.70
20-50	386.80	N.A.	50.40
40-70	5.49	N.A.	0.70
60-80	0.00	N.A.	0.00
70-80	0.00	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	767.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	98.96
10-20	281.73
20-30	299.49
30-40	82.20
40-50	5.11
50-60	0.39
60-70	0.00
70-80	0.00
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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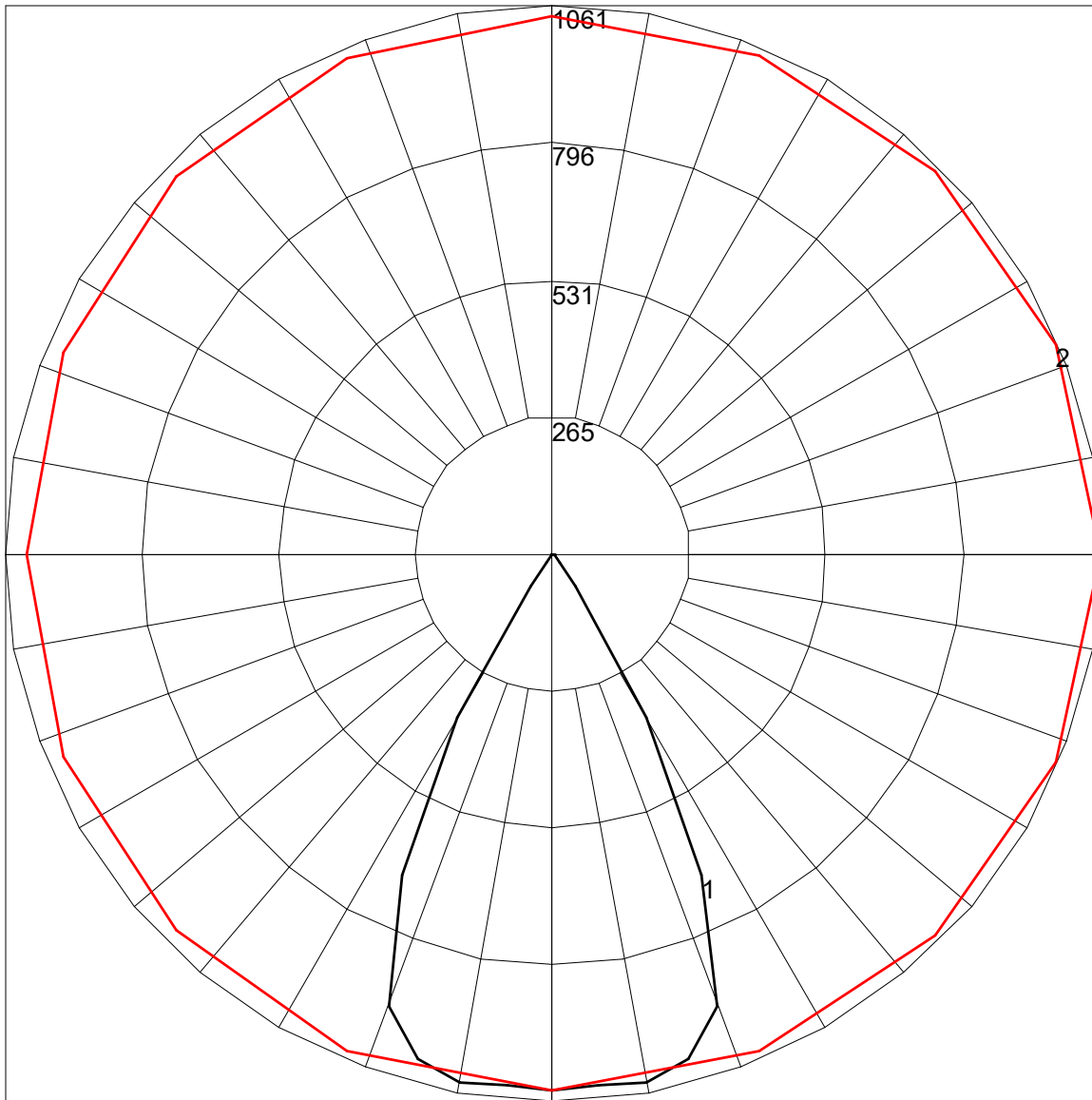
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	0
0	41	41	41	41	40	40	40	40	39	39	39	37	37	37	36	36	36	35
1	40	39	38	37	39	38	37	37	37	36	36	35	35	35	34	34	34	33
2	38	37	35	34	37	36	35	34	35	34	33	34	33	32	33	32	32	31
3	36	34	33	32	36	34	33	31	33	32	31	32	31	30	31	31	30	29
4	35	33	31	30	34	32	31	29	31	30	29	31	30	29	30	29	28	28
5	33	31	29	28	33	30	29	28	30	28	27	29	28	27	29	28	27	26
6	32	29	27	26	31	29	27	26	28	27	26	28	27	26	28	26	25	25
7	31	28	26	25	30	27	26	25	27	26	24	27	25	24	26	25	24	24
8	29	26	25	23	29	26	24	23	26	24	23	25	24	23	25	24	23	22
9	28	25	23	22	28	25	23	22	25	23	22	24	23	22	24	23	22	21
10	27	24	22	21	27	24	22	21	24	22	21	23	22	21	23	22	21	20

POLAR GRAPH



Maximum Candela = 1061.038 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)