



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L23-9DW-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-L23-9DW-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	2206
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	37.7
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	754	587	1006
55	0	103	207
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>	2990.380	2990.380	2990.380	2990.380	2990.380	2990.380	2990.380	2990.380	2990.380
<b>5</b>	3002.281	2992.544	2987.134	2978.479	2967.660	2957.923	2941.694	2929.793	2922.220
<b>10</b>	3047.721	3033.656	3010.936	2995.789	2993.626	2991.462	2969.824	2949.268	2925.466
<b>15</b>	3042.311	3015.264	2982.807	2937.367	2913.565	2893.009	2856.224	2779.409	2746.952
<b>20</b>	2799.965	2833.504	2740.460	2722.068	2685.283	2618.205	2555.455	2521.916	2458.084
<b>25</b>	2071.844	2009.094	2067.517	2011.258	1970.145	1841.399	1825.170	1800.287	1761.338
<b>30</b>	1198.749	1212.813	1142.490	1065.674	1054.855	1031.054	983.450	944.501	902.307
<b>35</b>	282.377	259.657	218.544	247.756	218.544	212.053	212.053	191.497	222.872
<b>40</b>	60.587	54.095	48.686	50.849	56.259	53.013	51.931	51.931	44.358
<b>45</b>	9.737	7.573	7.573	10.819	12.983	14.065	11.901	14.065	11.901
<b>50</b>	3.246	2.164	1.082	2.164	3.246	4.328	3.246	4.328	4.328
<b>55</b>	0.000	0.000	1.082	1.082	2.164	1.082	0.000	2.164	1.082
<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	1093.5	N.A.	49.60
0-30	1953.76	N.A.	88.60
0-40	2189.87	N.A.	99.30
0-60	2205.65	N.A.	100.00
0-80	2205.65	N.A.	100.00
0-90	2205.65	N.A.	100.00
10-90	1921.39	N.A.	87.10
20-40	1096.37	N.A.	49.70
20-50	1111.03	N.A.	50.40
40-70	15.78	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	2205.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	284.26
10-20	809.24
20-30	860.26
30-40	236.11
40-50	14.66
50-60	1.12
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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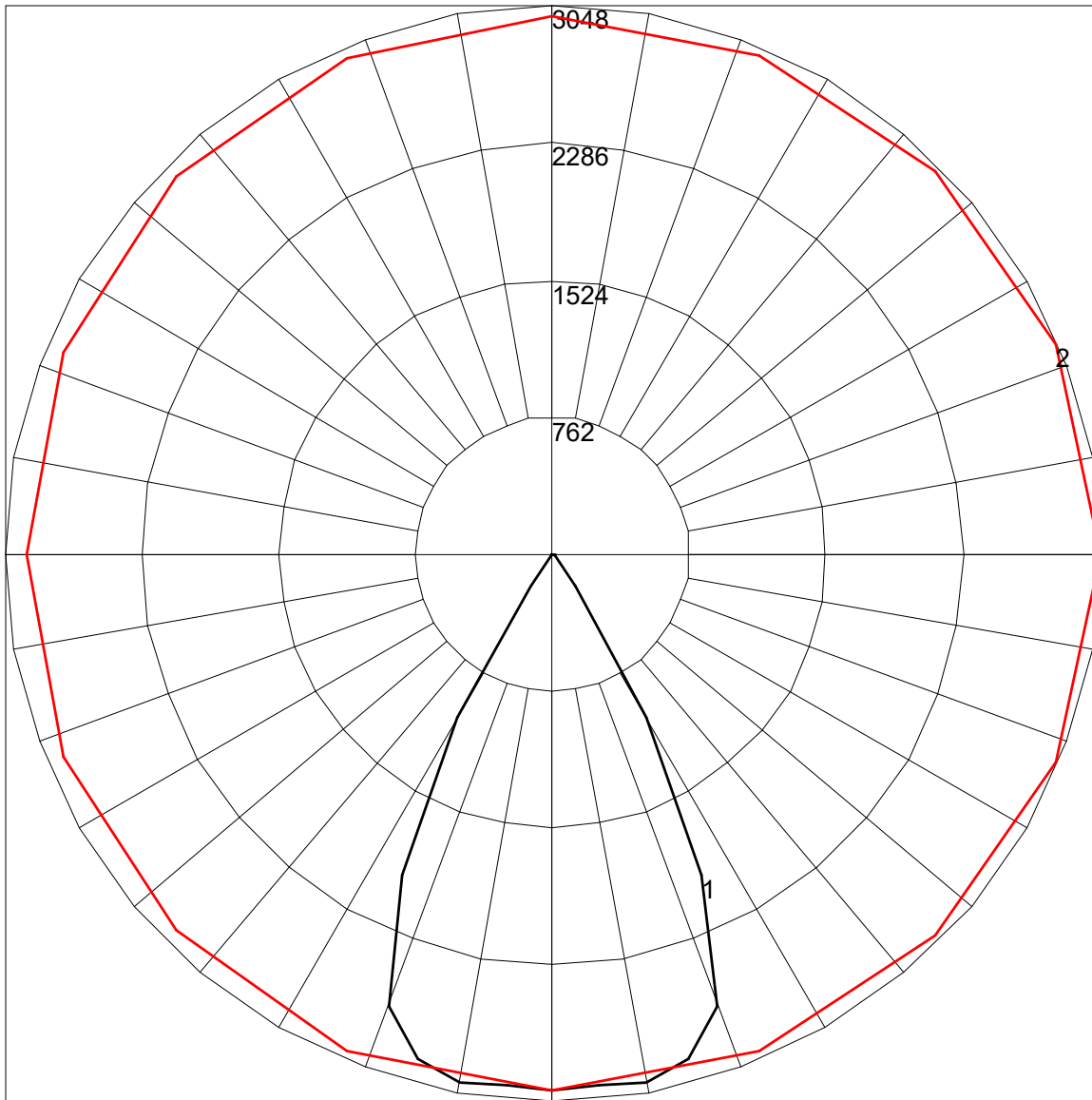
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	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	129	129	129	129	126	126	126	126	120	120	120	115	115	115	110	110	110	108
1	123	121	118	116	121	118	116	114	114	112	111	110	109	108	106	105	104	103
2	118	114	110	106	116	112	108	105	108	105	103	105	103	101	102	100	99	97
3	113	107	102	98	111	106	101	98	103	99	96	100	97	95	98	95	93	92
4	108	101	96	92	106	100	95	91	98	93	90	96	92	89	94	91	88	87
5	104	96	90	86	102	95	89	86	93	88	85	91	87	84	89	86	83	82
6	99	91	85	81	98	90	85	81	88	84	80	87	83	80	86	82	79	78
7	95	86	80	76	94	85	80	76	84	79	76	83	79	75	82	78	75	74
8	91	82	76	72	90	81	76	72	80	75	72	79	75	71	78	74	71	70
9	87	78	72	68	86	78	72	68	77	72	68	76	71	68	75	71	68	66
10	84	74	69	65	83	74	69	65	73	68	65	72	68	65	72	67	64	63

POLAR GRAPH



Maximum Candela = 3047.721 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.)