



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-835-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

[ISSUE DATE] 20-JUL-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, 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-L30-835-DIM-UNV-OW-OF-CS\_0 DEG TILT

[LAMPCAT] BXRE-35E2000

[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	2917
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	31.3
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	997	776	1330
55	0	137	273
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>	3954.187	3954.187	3954.187	3954.187	3954.187	3954.187	3954.187	3954.187	3954.187
<b>5</b>	3969.923	3957.048	3949.895	3938.450	3924.144	3911.269	3889.810	3874.073	3864.059
<b>10</b>	4030.009	4011.411	3981.368	3961.340	3958.479	3955.617	3927.005	3899.824	3868.351
<b>15</b>	4022.856	3987.091	3944.173	3884.087	3852.614	3825.432	3776.792	3675.219	3632.301
<b>20</b>	3702.401	3746.749	3623.717	3599.397	3550.757	3462.059	3379.084	3334.736	3250.330
<b>25</b>	2739.605	2656.630	2733.882	2659.491	2605.128	2434.886	2413.427	2380.523	2329.022
<b>30</b>	1585.108	1603.706	1510.717	1409.144	1394.838	1363.365	1300.418	1248.916	1193.123
<b>35</b>	373.387	343.345	288.982	327.608	288.982	280.398	280.398	253.217	294.704
<b>40</b>	80.114	71.530	64.377	67.238	74.391	70.100	68.669	68.669	58.655
<b>45</b>	12.875	10.014	10.014	14.306	17.167	18.598	15.737	18.598	15.737
<b>50</b>	4.292	2.861	1.431	2.861	4.292	5.722	4.292	5.722	5.722
<b>55</b>	0.000	0.000	1.431	1.431	2.861	1.431	0.000	2.861	1.431
<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	1445.94	N.A.	49.60
0-30	2583.46	N.A.	88.60
0-40	2895.67	N.A.	99.30
0-60	2916.54	N.A.	100.00
0-80	2916.54	N.A.	100.00
0-90	2916.54	N.A.	100.00
10-90	2540.66	N.A.	87.10
20-40	1449.73	N.A.	49.70
20-50	1469.12	N.A.	50.40
40-70	20.87	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	2916.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	375.88
10-20	1070.06
20-30	1137.52
30-40	312.20
40-50	19.39
50-60	1.48
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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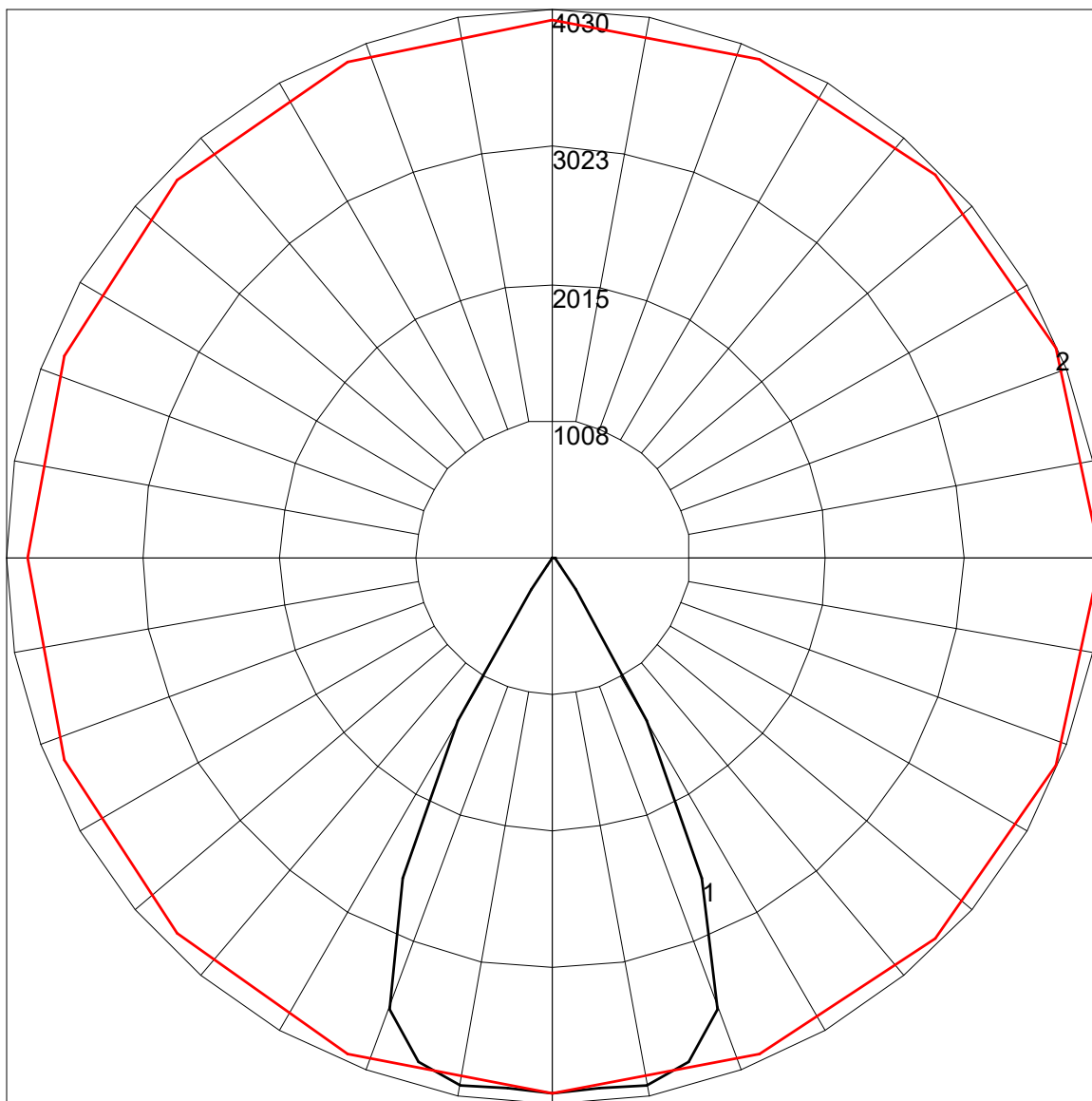
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	50	30	10	0
0	226	226	226	226	221	221	221	221	211	211	211	202	202	202	194	194	194	190	190	190	190
1	217	212	208	204	212	208	204	201	200	197	194	193	191	189	187	185	183	180	180	180	180
2	207	199	192	187	203	196	190	184	190	185	180	184	180	177	179	176	173	170	170	170	170
3	198	188	179	173	195	185	177	171	180	174	169	176	170	166	172	167	163	161	161	161	161
4	190	177	168	161	187	175	167	160	171	164	158	168	161	156	164	159	155	152	152	152	152
5	182	168	158	151	179	166	157	150	163	155	149	160	153	148	157	151	146	144	144	144	144
6	174	159	149	142	171	158	148	141	155	147	140	152	145	140	150	144	139	136	136	136	136
7	167	151	141	134	164	150	140	134	148	139	133	145	138	132	143	137	132	129	129	129	129
8	160	144	134	127	158	143	133	126	141	132	126	139	131	125	137	130	125	123	123	123	123
9	153	137	127	120	151	136	126	120	134	126	120	133	125	119	131	124	119	117	117	117	117
10	147	131	121	114	145	130	120	114	128	120	114	127	119	113	126	118	113	111	111	111	111

POLAR GRAPH



Maximum Candela = 4030.009 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.)