



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-835-DIM-UNV-ON-OF-CS\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20395.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 21-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] TILT ACRYLIC NARROW TIR OPTIC & OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-L30-835-DIM-UNV-ON-OF-CS\_0 DEGREE TILT

[LAMPCAT] BXRE-35E2000

[\_SEARCH\_SOURCE] 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	2790
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	31.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.40
Spacing Criterion (Diagonal)	0.38
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	2009	2114	2114
55	0	0	0
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>	14889.104	14889.104	14889.104	14889.104	14889.104	14889.104	14889.104	14889.104	14889.104
<b>5</b>	13969.114	14014.158	14104.246	13677.010	13491.374	13166.511	12901.706	12900.341	12153.702
<b>10</b>	10289.152	10326.006	9961.559	9152.131	8971.955	8537.894	8097.008	7795.350	7721.641
<b>15</b>	4730.990	5069.502	4530.339	4235.505	3947.496	3809.634	3292.310	3170.828	3105.309
<b>20</b>	1801.762	1852.266	1719.864	1643.425	1550.607	1501.468	1310.372	1220.284	1243.489
<b>25</b>	685.215	704.325	649.726	621.062	608.777	555.543	514.594	468.185	442.251
<b>30</b>	245.695	247.060	234.775	225.220	217.030	208.841	184.271	180.176	178.811
<b>35</b>	109.198	111.928	109.198	105.103	106.468	101.008	96.913	94.183	90.088
<b>40</b>	51.869	53.234	54.599	54.599	55.964	54.599	51.869	49.139	45.044
<b>45</b>	25.934	25.934	27.299	27.299	27.299	27.299	25.934	25.934	23.205
<b>50</b>	16.380	16.380	16.380	16.380	16.380	17.745	17.745	17.745	15.015
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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	2365.66	N.A.	84.80
0-30	2689.79	N.A.	96.40
0-40	2762.44	N.A.	99.00
0-60	2789.51	N.A.	100.00
0-80	2789.51	N.A.	100.00
0-90	2789.51	N.A.	100.00
10-90	1649.99	N.A.	59.10
20-40	396.78	N.A.	14.20
20-50	420.20	N.A.	15.10
40-70	27.07	N.A.	1.00
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	2789.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1139.52
10-20	1226.14
20-30	324.13
30-40	72.65
40-50	23.41
50-60	3.65
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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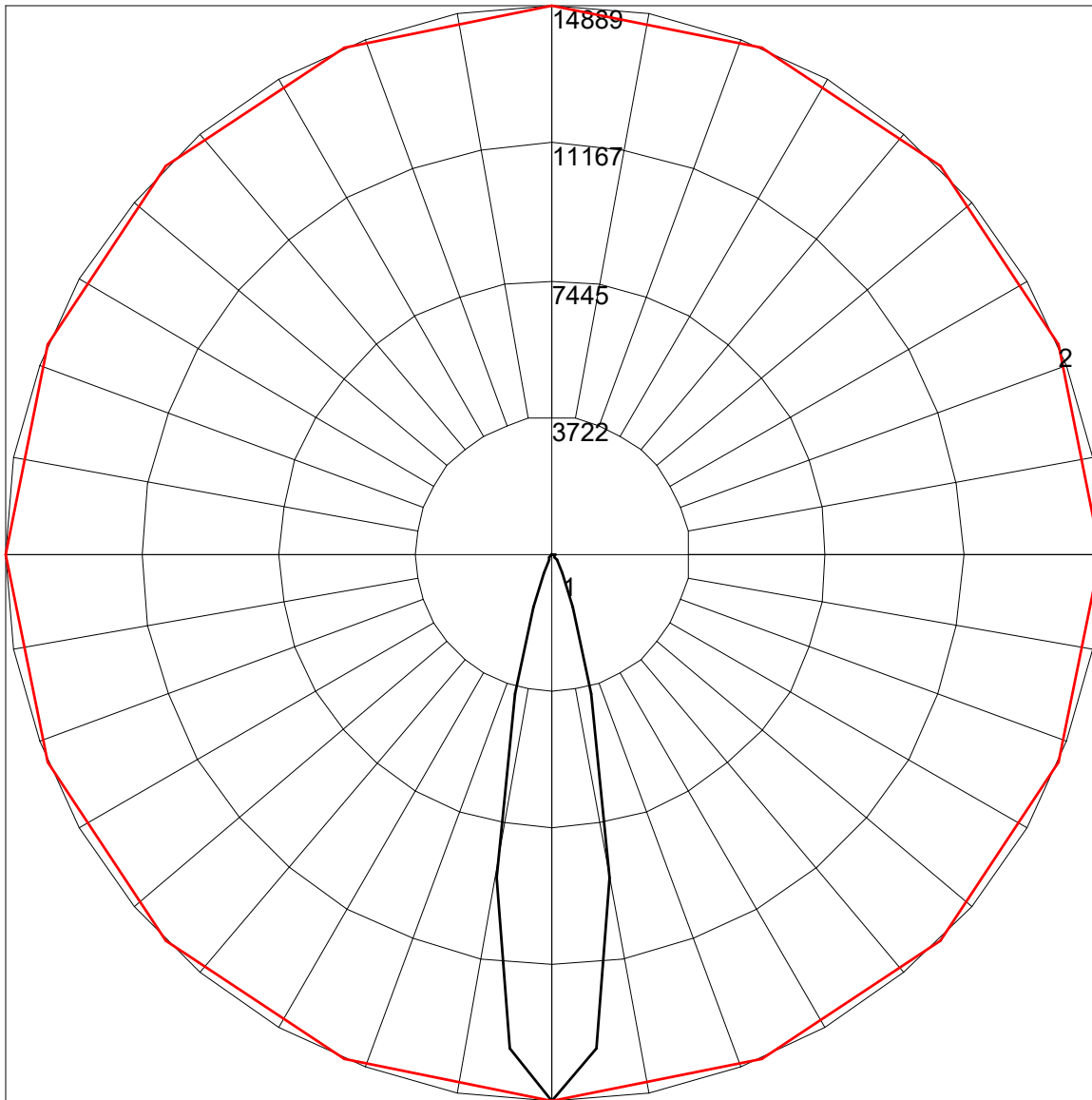
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	325	325	325	325	317	317	317	317	303	303	303	290	290	290	279	279	279	273
1	315	309	304	300	308	303	299	295	292	289	286	282	280	277	273	271	269	265
2	305	296	288	281	299	291	284	278	283	277	272	275	270	267	268	264	261	257
3	296	284	275	267	291	280	272	265	274	267	261	268	262	257	262	257	253	250
4	288	274	264	256	283	271	262	254	266	258	252	261	254	249	256	251	246	243
5	280	265	254	246	276	262	253	245	258	250	243	254	247	241	250	244	239	236
6	272	257	246	238	269	255	245	237	251	242	236	248	240	235	245	238	233	230
7	266	249	238	231	263	248	238	230	245	236	229	242	234	228	239	232	227	225
8	259	242	232	225	257	241	231	224	239	230	223	236	228	222	234	227	222	219
9	253	236	226	219	251	235	225	218	233	224	218	231	223	217	229	222	216	214
10	247	230	220	213	245	229	220	213	227	219	213	226	218	212	224	217	212	209

POLAR GRAPH



Maximum Candela = 14889.104 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)