



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P38-835-POE-OM-OF-CS\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20392.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-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 MED TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-P38-835-PoE-OM-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	3789
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.50
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	2009	2009
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>	11635.660	11635.660	11635.660	11635.660	11635.660	11635.660	11635.660	11635.660	11635.660
<b>5</b>	11609.720	11563.400	11511.521	11429.998	11368.855	11313.270	11279.920	11266.950	11265.097
<b>10</b>	10953.825	10940.855	10781.513	10607.349	10416.509	10231.228	9968.129	9890.311	9703.177
<b>15</b>	8324.685	8337.654	8115.317	7791.075	7259.318	6766.470	6243.977	5823.388	5391.683
<b>20</b>	3688.949	3803.823	3635.217	3392.499	3281.330	2773.660	2403.097	2199.288	2039.946
<b>25</b>	1365.522	1371.081	1337.730	1274.735	1178.388	1087.601	996.813	880.086	874.527
<b>30</b>	609.575	616.986	596.605	574.372	546.580	507.671	466.909	435.411	416.883
<b>35</b>	276.069	281.627	268.658	248.277	246.424	231.602	214.926	200.104	192.692
<b>40</b>	111.169	116.727	107.463	103.757	96.346	92.641	83.377	81.524	77.818
<b>45</b>	25.939	25.939	25.939	24.087	25.939	25.939	24.087	22.234	20.381
<b>50</b>	1.853	3.706	1.853	1.853	3.706	0.000	1.853	3.706	1.853
<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	2935.76	N.A.	77.50
0-30	3589.88	N.A.	94.80
0-40	3760.06	N.A.	99.20
0-60	3788.56	N.A.	100.00
0-80	3788.56	N.A.	100.00
0-90	3788.56	N.A.	100.00
10-90	2733.65	N.A.	72.20
20-40	824.30	N.A.	21.80
20-50	852.29	N.A.	22.50
40-70	28.49	N.A.	0.80
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	3788.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1054.91
10-20	1880.85
20-30	654.12
30-40	170.18
40-50	27.99
50-60	0.50
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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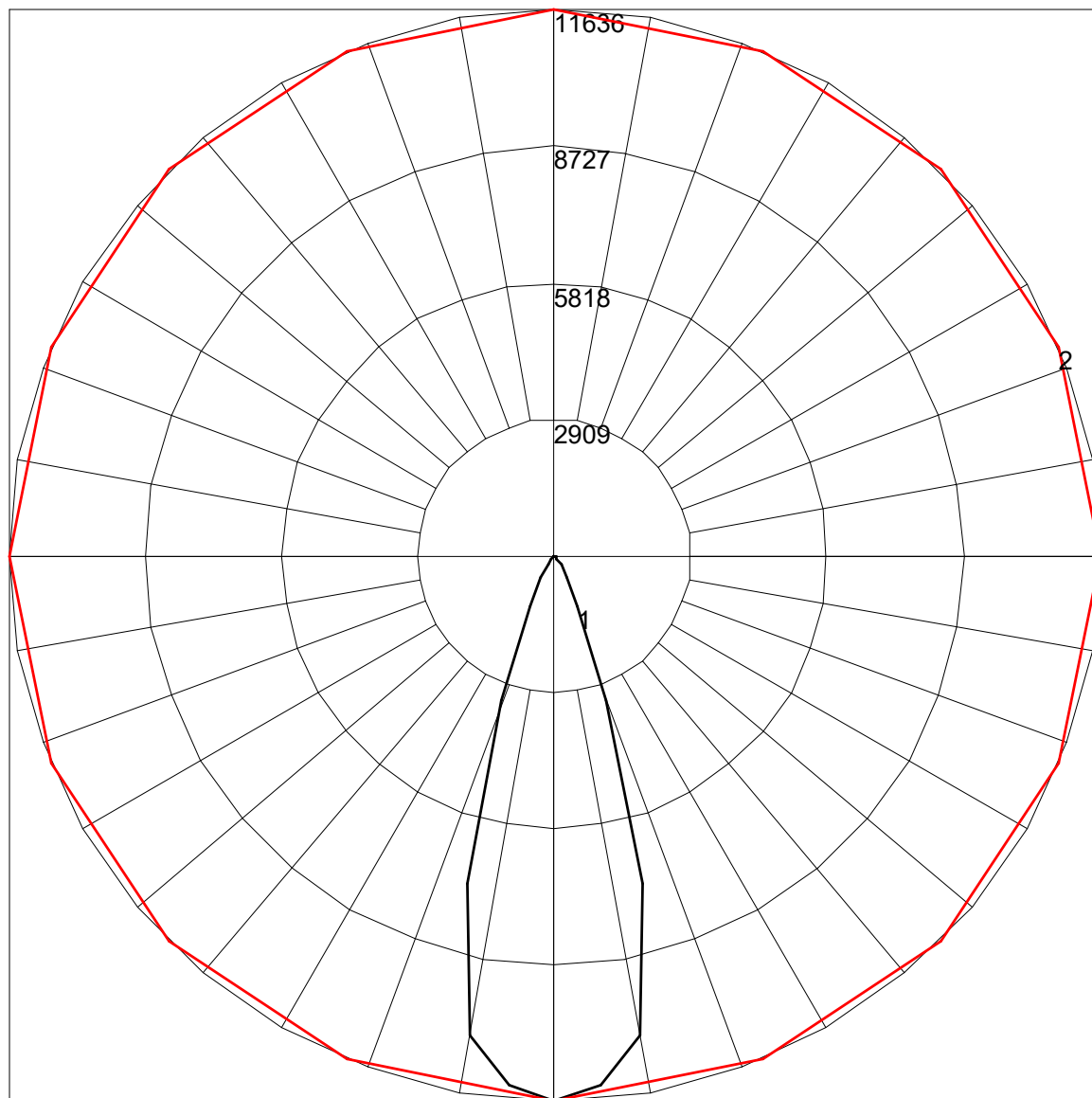
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	345	345	345	345	337	337	337	337	322	322	322	308	308	308	296	296	296	290
1	333	326	321	316	326	320	315	311	309	305	301	298	295	292	288	286	284	279
2	321	310	302	294	315	306	298	291	297	290	285	288	283	279	281	277	273	269
3	310	297	286	277	305	293	283	275	286	277	271	279	272	267	273	267	263	259
4	300	284	272	263	296	281	270	262	275	266	259	270	262	256	265	258	253	249
5	291	273	260	251	287	270	259	250	266	256	248	261	253	246	257	250	244	241
6	281	263	250	241	278	261	249	240	257	246	239	253	244	237	250	242	236	233
7	273	253	241	232	270	252	240	231	248	238	230	245	236	229	242	234	228	225
8	265	245	232	223	262	243	231	223	241	230	222	238	228	221	236	227	221	218
9	257	237	224	216	254	235	224	216	233	222	215	231	221	214	229	220	214	211
10	250	229	217	209	247	228	217	209	226	216	208	224	215	208	222	214	207	204

POLAR GRAPH



Maximum Candela = 11635.66 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.)