



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P38-835-POE-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-P38-835-PoE-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	3791
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)	0.96
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	1296	1008	1729
55	0	178	355
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>	5140.308	5140.308	5140.308	5140.308	5140.308	5140.308	5140.308	5140.308	5140.308
<b>5</b>	5160.765	5144.027	5134.728	5119.850	5101.253	5084.516	5056.619	5036.162	5023.144
<b>10</b>	5238.874	5214.697	5175.643	5149.606	5145.887	5142.167	5104.973	5069.638	5028.723
<b>15</b>	5229.575	5183.081	5127.289	5049.181	5008.266	4972.931	4909.700	4777.659	4721.867
<b>20</b>	4812.994	4870.646	4710.709	4679.093	4615.862	4500.559	4392.694	4335.042	4225.318
<b>25</b>	3561.393	3453.528	3553.954	3457.247	3386.577	3165.269	3137.373	3094.599	3027.649
<b>30</b>	2060.586	2084.763	1963.880	1831.839	1813.242	1772.327	1690.499	1623.549	1551.019
<b>35</b>	485.391	446.336	375.666	425.879	375.666	364.508	364.508	329.173	383.105
<b>40</b>	104.145	92.987	83.688	87.408	96.706	91.127	89.267	89.267	76.249
<b>45</b>	16.738	13.018	13.018	18.597	22.317	24.177	20.457	24.177	20.457
<b>50</b>	5.579	3.719	1.860	3.719	5.579	7.439	5.579	7.439	7.439
<b>55</b>	0.000	0.000	1.860	1.860	3.719	1.860	0.000	3.719	1.860
<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	1879.67	N.A.	49.60
0-30	3358.42	N.A.	88.60
0-40	3764.27	N.A.	99.30
0-60	3791.4	N.A.	100.00
0-80	3791.4	N.A.	100.00
0-90	3791.4	N.A.	100.00
10-90	3302.77	N.A.	87.10
20-40	1884.6	N.A.	49.70
20-50	1909.8	N.A.	50.40
40-70	27.13	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	3791.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

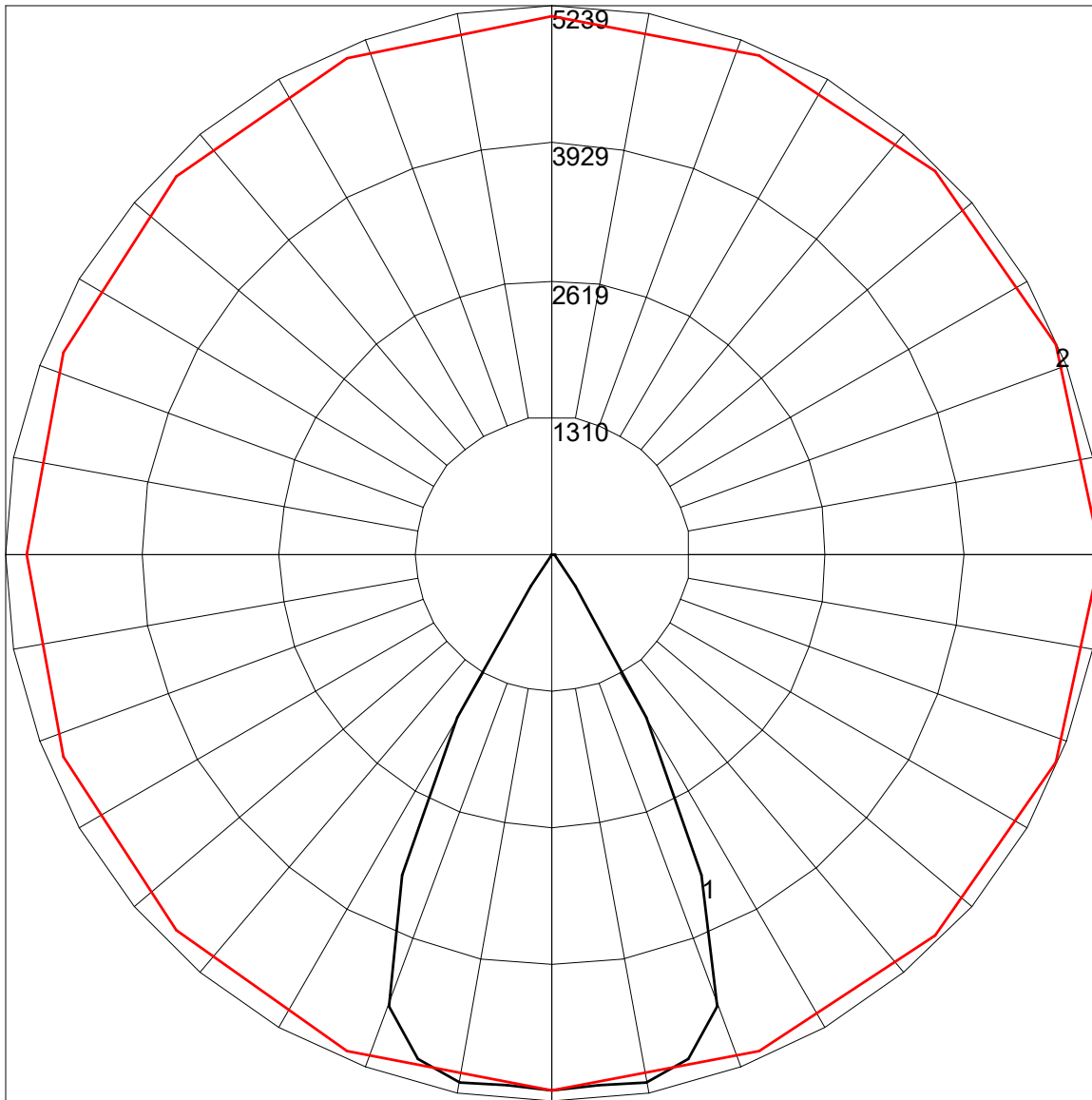
Zone	Lumens
0-10	488.63
10-20	1391.05
20-30	1478.74
30-40	405.85
40-50	25.21
50-60	1.92
60-70	0.00
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	346	346	346	346	338	338	338	338	323	323	323	309	309	309	296	296	296	291
1	332	324	318	312	325	318	312	307	306	302	298	296	292	289	286	283	280	275
2	318	305	294	286	311	300	290	282	291	283	276	282	276	270	274	269	265	260
3	304	287	275	264	298	283	272	262	276	266	258	269	261	254	263	256	250	246
4	291	271	257	246	286	268	255	245	262	251	242	257	247	239	251	243	237	233
5	278	257	242	231	274	254	240	230	249	237	228	245	234	226	240	231	224	220
6	267	244	228	217	263	241	227	217	237	225	215	233	222	214	230	220	212	209
7	255	231	216	205	252	230	215	205	226	213	203	223	211	202	220	209	201	198
8	245	220	205	194	241	218	204	194	215	202	193	213	201	192	210	199	191	188
9	235	210	194	184	232	208	194	184	206	192	183	203	191	182	201	190	182	178
10	225	200	185	175	222	199	184	175	196	183	174	194	182	174	192	181	173	170

POLAR GRAPH



Maximum Candela = 5238.874 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.)