



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P38-835-POE-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] 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 NARROW TIR OPTIC & OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-P13-835-DIM-UNV-ON-OF-CS_0 DEGREE 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	3626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	37.5
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	2611	2749	2749
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>
0	19355.831	19355.831	19355.831	19355.831	19355.831	19355.831	19355.831	19355.831	19355.831
5	18159.844	18218.401	18335.516	17780.109	17538.782	17116.460	16772.215	16770.440	15799.810
10	13375.894	13423.805	12950.024	11897.768	11663.539	11099.260	10526.108	10133.952	10038.131
15	6150.285	6590.352	5889.439	5506.156	5131.744	4952.523	4280.002	4122.075	4036.901
20	2342.290	2407.945	2235.822	2136.452	2015.789	1951.908	1703.484	1586.369	1616.535
25	890.780	915.622	844.644	807.380	791.410	722.206	668.972	608.640	574.926
30	319.403	321.178	305.207	292.786	282.139	271.493	239.552	234.229	232.455
35	141.957	145.506	141.957	136.634	138.408	131.310	125.987	122.438	117.114
40	67.430	69.204	70.978	70.978	72.753	70.978	67.430	63.881	58.557
45	33.715	33.715	35.489	35.489	35.489	35.489	33.715	33.715	30.166
50	21.294	21.294	21.294	21.294	21.294	23.068	23.068	23.068	19.519
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	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	3075.35	N.A.	84.80
0-30	3496.73	N.A.	96.40
0-40	3591.17	N.A.	99.00
0-60	3626.36	N.A.	100.00
0-80	3626.36	N.A.	100.00
0-90	3626.36	N.A.	100.00
10-90	2144.99	N.A.	59.10
20-40	515.82	N.A.	14.20
20-50	546.26	N.A.	15.10
40-70	35.19	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	3626.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1481.38
10-20	1593.98
20-30	421.37
30-40	94.44
40-50	30.44
50-60	4.75
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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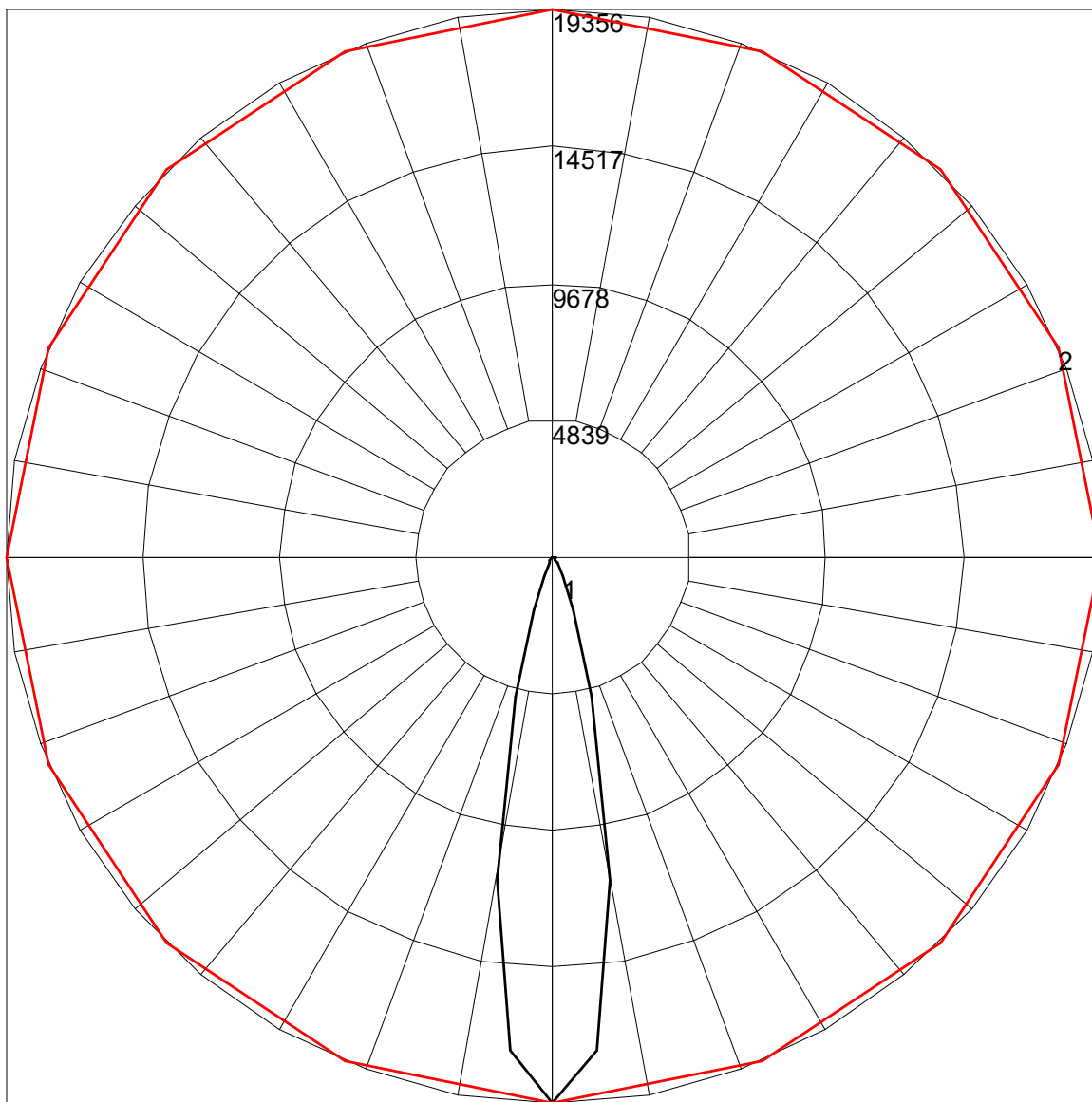
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	330	330	330	330	322	322	322	322	308	308	308	295	295	295	283	283	283	277
1	320	314	309	304	313	308	304	300	297	294	290	287	284	282	278	276	274	269
2	310	300	292	286	304	296	289	283	287	281	277	279	275	271	272	268	265	261
3	301	288	279	271	296	285	276	269	278	271	265	272	266	261	266	261	257	254
4	292	278	268	260	288	275	266	258	270	262	256	265	258	253	260	255	250	247
5	284	269	258	250	280	267	257	249	262	254	247	258	251	245	254	248	243	240
6	277	261	250	242	273	259	249	241	255	246	240	252	244	238	249	242	237	234
7	270	253	242	235	267	251	241	234	248	240	233	246	238	232	243	236	231	228
8	263	246	235	228	261	245	235	228	242	233	227	240	232	226	238	231	225	223
9	257	240	229	222	255	239	229	222	237	227	221	235	226	221	233	225	220	217
10	251	234	223	217	249	233	223	216	231	222	216	229	221	215	228	220	215	213

POLAR GRAPH



Maximum Candela = 19355.831 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.)