



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-P37-835-POE-ON-OF-CS_0 DEGREE TILT_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20451.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 11-MAR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMCAT] 4AR-P37-835-POE-ON-OF-CS_0 DEGREE TILT

[LUMINAIRE] GEN7 V13 LED 4" SHORT HEATSINK 4" RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC NARROW TIR OPTIC & 4" OPEN ASYM SEMI-SPEC TRIM

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4137
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.40
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	3207	3207	3207
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	23907.764	23907.764	23907.764	23907.764	23907.764	23907.764	23907.764	23907.764	23907.764
5	21689.812	21271.523	21320.494	21516.375	21342.938	21465.364	20816.506	20971.579	20967.499
10	13652.543	13607.654	13693.352	14419.746	13899.436	13711.716	12924.108	13466.864	12911.866
15	5778.509	5433.675	6160.070	6237.606	6443.690	6541.631	6227.404	5888.692	5603.031
20	2087.364	1913.927	2148.577	2207.749	2473.006	2360.782	2283.246	2287.326	2189.386
25	663.141	663.141	701.909	785.567	789.648	801.891	750.880	767.203	787.607
30	199.963	193.841	187.720	199.963	206.084	206.084	202.003	206.084	187.720
35	57.132	61.213	61.213	61.213	67.334	65.294	63.253	63.253	53.051
40	26.526	24.485	26.526	28.566	28.566	28.566	24.485	24.485	20.404
45	18.364	18.364	18.364	18.364	18.364	14.283	8.162	14.283	14.283
50	0.000	0.000	0.000	0.000	2.040	2.040	0.000	0.000	0.000
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4AR-P37-835-POE-ON-OF-CS_0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3640.87	N.A.	88.00
0-30	4072.8	N.A.	98.40
0-40	4126.08	N.A.	99.70
0-60	4137.26	N.A.	100.00
0-80	4137.26	N.A.	100.00
0-90	4137.26	N.A.	100.00
10-90	2349.6	N.A.	56.80
20-40	485.21	N.A.	11.70
20-50	496.28	N.A.	12.00
40-70	11.18	N.A.	0.30
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	4137.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1787.66
10-20	1853.22
20-30	431.93
30-40	53.28
40-50	11.07
50-60	0.11
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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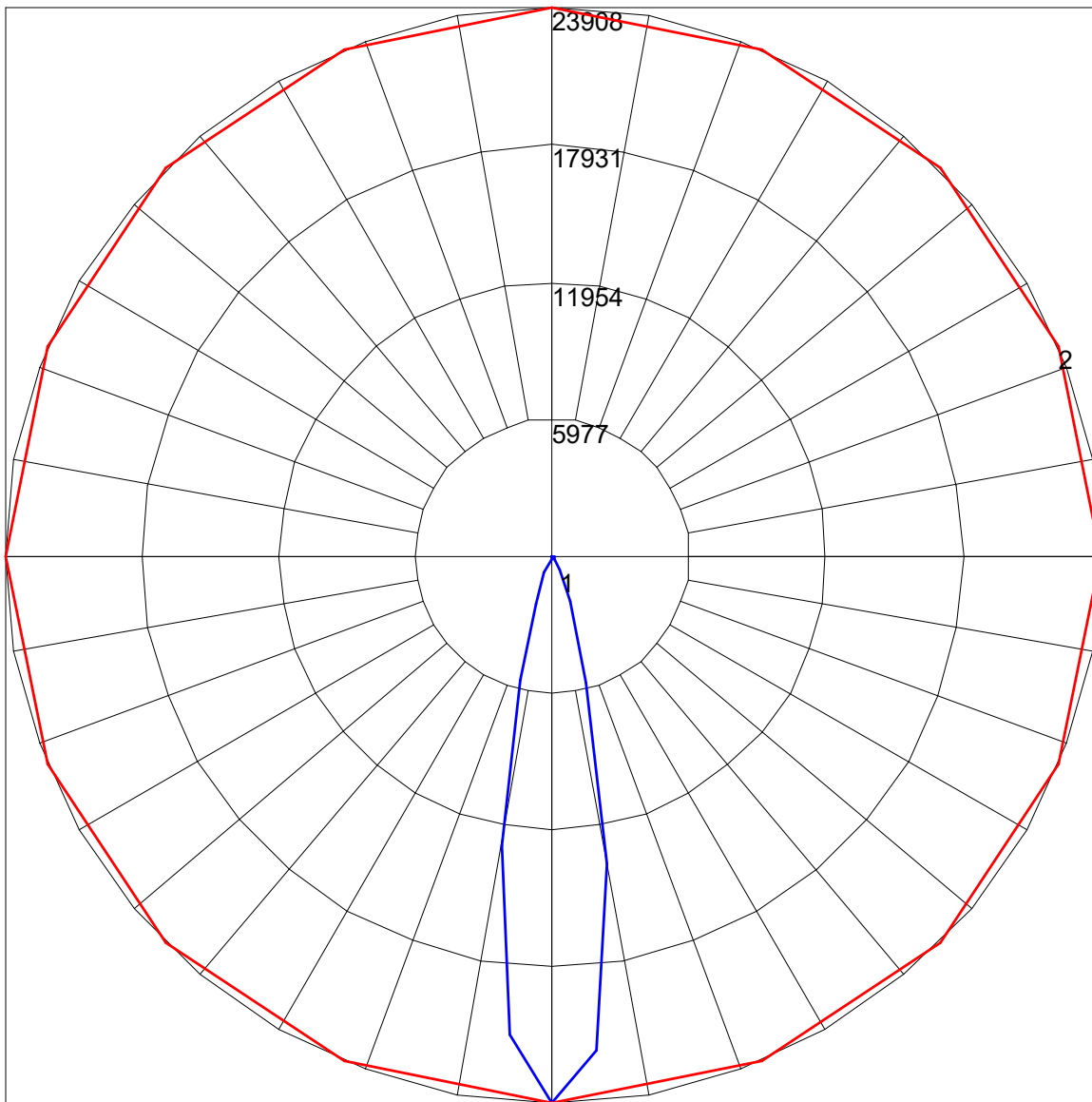
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	439	439	439	439	428	428	428	428	409	409	409	392	392	392	376	376	376	368
1	425	418	411	405	416	410	404	399	395	391	387	382	379	375	370	367	365	359
2	413	400	390	382	405	394	385	378	383	376	369	373	367	362	363	358	354	349
3	401	385	373	364	395	381	370	361	372	363	355	364	356	350	356	350	345	340
4	390	372	359	349	385	369	357	347	362	351	343	355	346	340	349	342	336	332
5	380	361	347	337	376	358	345	336	352	341	333	347	338	330	342	334	328	324
6	371	350	337	327	367	348	335	326	343	332	324	339	329	322	335	326	320	316
7	362	341	327	318	359	339	326	317	335	324	315	331	321	314	328	319	312	309
8	354	332	319	309	351	331	318	309	327	316	308	324	314	307	321	312	305	302
9	346	324	311	302	343	323	310	301	320	309	301	317	307	300	315	306	299	296
10	339	317	304	295	336	316	303	295	313	302	294	311	301	293	309	299	293	290

POLAR GRAPH



Maximum Candela = 23907.764 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)