



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-P22-835-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

[ISSUEDATE] 11-MAR-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4AR-P22-835-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	2307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	25
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	1788	1788	1788
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	13328.954	13328.954	13328.954	13328.954	13328.954	13328.954	13328.954	13328.954	13328.954
5	12092.411	11859.209	11886.510	11995.717	11899.024	11967.278	11605.530	11691.985	11689.710
10	7611.507	7586.481	7634.259	8039.235	7749.154	7644.497	7205.393	7507.988	7198.568
15	3221.609	3029.359	3434.336	3477.564	3592.459	3647.062	3471.876	3283.038	3123.778
20	1163.738	1067.044	1197.865	1230.855	1378.740	1316.173	1272.945	1275.220	1220.617
25	369.712	369.712	391.325	437.966	440.241	447.067	418.627	427.728	439.104
30	111.482	108.070	104.657	111.482	114.895	114.895	112.620	114.895	104.657
35	31.852	34.127	34.127	34.127	37.540	36.402	35.265	35.265	29.577
40	14.788	13.651	14.788	15.926	15.926	15.926	13.651	13.651	11.376
45	10.238	10.238	10.238	10.238	10.238	7.963	4.550	7.963	7.963
50	0.000	0.000	0.000	0.000	1.138	1.138	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-P22-835-POE-ON-OF-CS_0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2029.84	N.A.	88.00
0-30	2270.65	N.A.	98.40
0-40	2300.36	N.A.	99.70
0-60	2306.59	N.A.	100.00
0-80	2306.59	N.A.	100.00
0-90	2306.59	N.A.	100.00
10-90	1309.94	N.A.	56.80
20-40	270.51	N.A.	11.70
20-50	276.68	N.A.	12.00
40-70	6.23	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	2306.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	996.65
10-20	1033.2
20-30	240.81
30-40	29.70
40-50	6.17
50-60	0.06
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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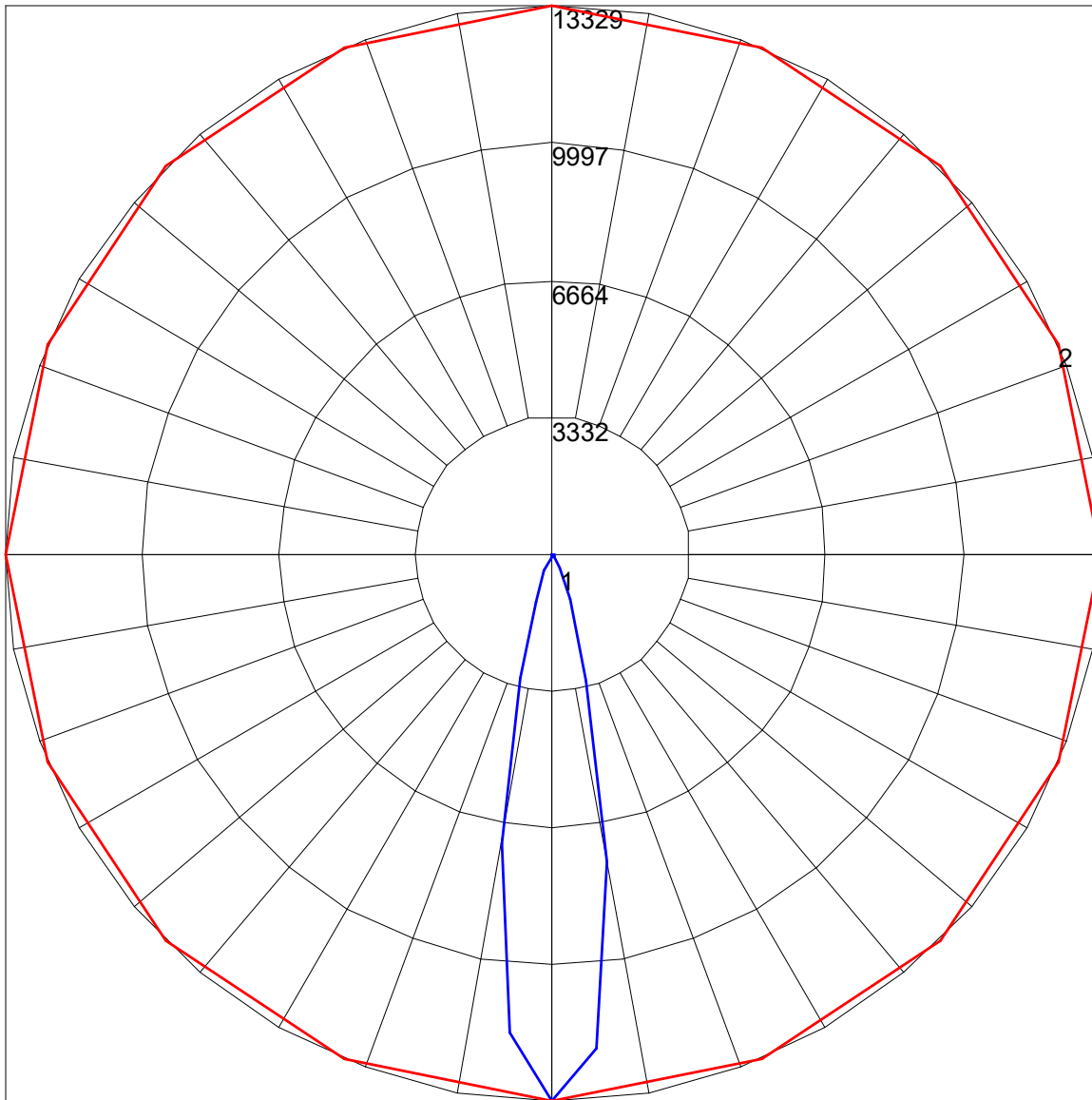
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	245	245	245	245	239	239	239	239	228	228	228	219	219	219	210	210	210	205
1	237	233	229	226	232	229	225	222	220	218	216	213	211	209	206	205	203	200
2	230	223	218	213	226	220	215	210	214	209	206	208	204	202	202	200	198	195
3	224	215	208	203	220	212	206	201	207	202	198	203	199	195	198	195	192	190
4	218	208	200	195	215	206	199	194	202	196	191	198	193	189	194	191	187	185
5	212	201	194	188	209	200	192	187	196	190	186	193	188	184	191	186	183	181
6	207	195	188	182	205	194	187	182	191	185	180	189	184	179	187	182	178	176
7	202	190	182	177	200	189	182	177	187	180	176	185	179	175	183	178	174	172
8	197	185	178	172	196	184	177	172	183	176	172	181	175	171	179	174	170	169
9	193	181	173	168	191	180	173	168	178	172	168	177	171	167	176	170	167	165
10	189	177	169	164	187	176	169	164	175	168	164	173	168	164	172	167	163	162

POLAR GRAPH



Maximum Candela = 13328.954 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.)