



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-P22-8TW-POE-OM-OF-CS 4000K\_0 DEGREE TILT\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20448.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 12-MAR-2020

[MANUFAC] WILLIAMS INDOOR

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

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

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

[LUMCAT] 4AR-P22-8TW-PoE-OM-OF-CS 4000k\_0 DEGREE TILT

[\_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	1829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.48
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	506	506	506
55	208	208	208
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>	6752.413	6752.413	6752.413	6752.413	6752.413	6752.413	6752.413	6752.413	6752.413
<b>5</b>	6720.512	6653.809	6645.109	6640.276	6641.242	6663.476	6657.676	6653.809	6636.409
<b>10</b>	5949.084	5920.083	5951.017	5924.916	5896.882	5747.043	5756.710	5774.111	5626.205
<b>15</b>	3546.829	3574.864	3831.040	3706.335	3628.999	3291.620	2935.874	2948.441	2755.100
<b>20</b>	1240.279	1266.380	1318.581	1327.282	1255.746	1111.707	1046.938	990.869	937.701
<b>25</b>	522.019	540.386	563.587	568.421	554.887	465.950	415.682	401.181	358.646
<b>30</b>	188.507	188.507	196.240	197.207	178.840	162.406	138.238	127.605	110.204
<b>35</b>	33.835	30.934	32.868	31.901	30.934	29.001	25.134	25.134	25.134
<b>40</b>	12.567	11.600	10.634	10.634	10.634	10.634	9.667	9.667	8.700
<b>45</b>	2.900	2.900	2.900	2.900	2.900	2.900	1.933	2.900	2.900
<b>50</b>	0.967	0.967	0.967	0.967	0.967	0.967	0.000	0.000	0.967
<b>55</b>	0.967	0.967	0.967	0.000	0.967	1.933	0.000	1.933	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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4AR-P22-8TW-POE-OM-OF-CS 4000K\_0 DEGREE TILT\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1530.57	N.A.	83.70
0-30	1789.35	N.A.	97.80
0-40	1824.98	N.A.	99.80
0-60	1828.71	N.A.	100.00
0-80	1828.71	N.A.	100.00
0-90	1828.71	N.A.	100.00
10-90	1221.31	N.A.	66.80
20-40	294.41	N.A.	16.10
20-50	297.58	N.A.	16.30
40-70	3.73	N.A.	0.20
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	1828.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	607.40
10-20	923.17
20-30	258.77
30-40	35.63
40-50	3.17
50-60	0.56
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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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

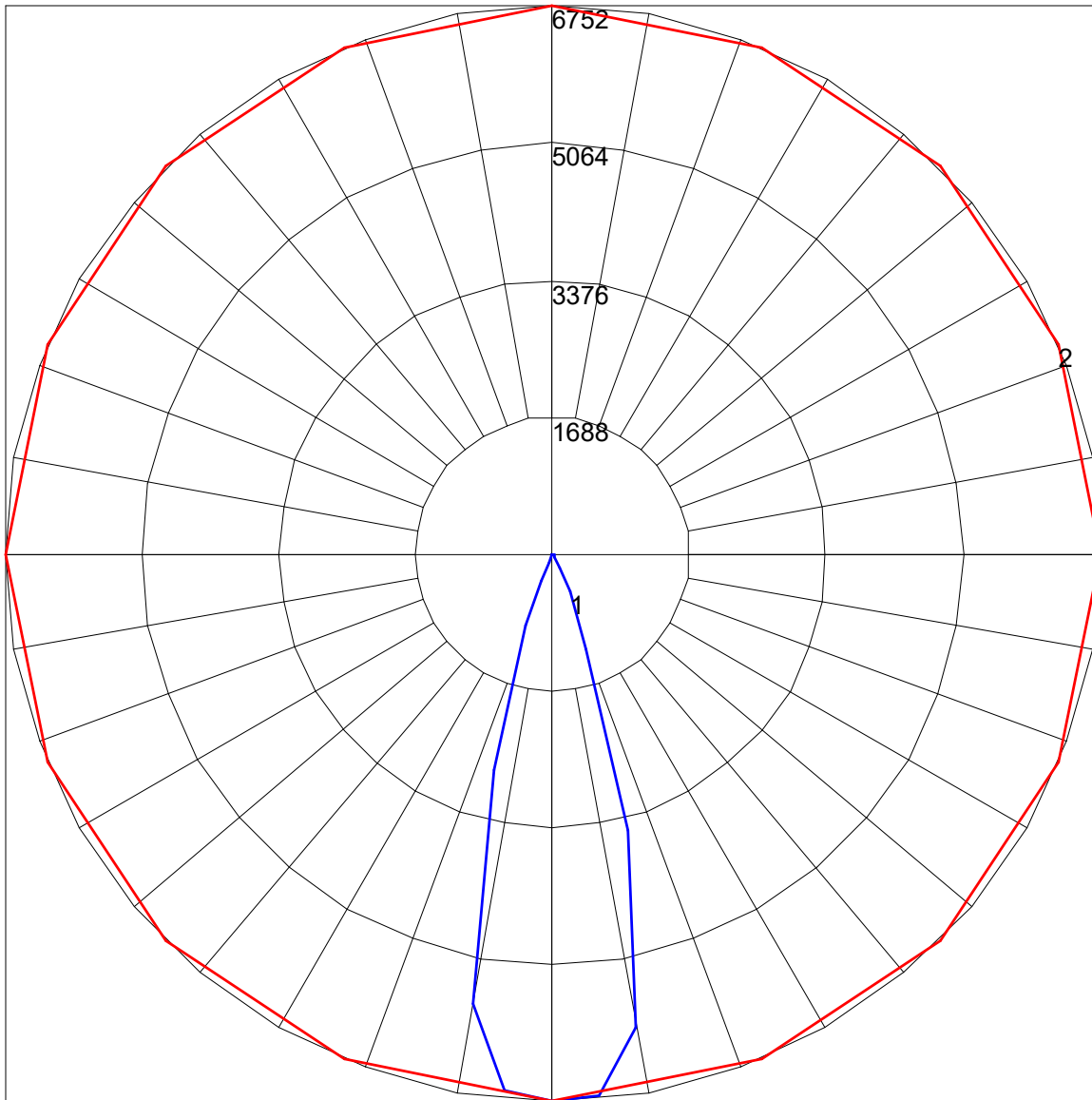
Effective Floor Cavity Reflectance 0.20

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	222	222	222	222	217	217	217	217	207	207	207	198	198	198	190	190	190	186
1	214	210	207	204	210	207	203	201	199	197	195	192	190	189	186	185	183	180
2	208	201	196	191	204	198	193	189	192	188	185	187	184	181	182	179	177	175
3	201	193	186	181	198	190	184	180	186	181	177	181	177	174	178	174	172	169
4	195	185	178	173	192	183	177	172	180	174	170	176	172	168	173	169	166	164
5	189	179	171	166	187	177	170	165	174	168	164	172	166	162	169	165	161	159
6	184	173	165	160	182	172	165	159	169	163	158	167	161	157	165	160	156	154
7	179	167	160	155	177	166	159	154	164	158	153	162	157	153	161	156	152	150
8	174	162	155	150	173	161	154	149	160	153	149	158	152	148	157	152	148	146
9	170	158	150	145	168	157	150	145	155	149	145	154	148	144	153	148	144	142
10	165	153	146	141	164	153	146	141	151	145	141	150	144	140	149	144	140	138

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## POLAR GRAPH



Maximum Candela = 6752.413 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.)