



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P27-835-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-P27-835-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	2657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	25
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	1913	2014	2014
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	14179.331	14179.331	14179.331	14179.331	14179.331	14179.331	14179.331	14179.331	14179.331
5	13303.197	13346.093	13431.887	13025.018	12848.231	12538.854	12286.673	12285.373	11574.327
10	9798.661	9833.758	9486.685	8715.843	8544.256	8130.887	7711.018	7423.740	7353.545
15	4505.460	4827.836	4314.375	4033.596	3759.316	3628.026	3135.364	3019.672	2957.277
20	1715.871	1763.967	1637.876	1565.082	1476.689	1429.892	1247.906	1162.112	1184.211
25	652.551	670.749	618.753	591.455	579.756	529.060	490.063	445.866	421.168
30	233.982	235.282	223.583	214.484	206.684	198.885	175.487	171.587	170.287
35	103.992	106.592	103.992	100.092	101.392	96.193	92.293	89.693	85.794
40	49.396	50.696	51.996	51.996	53.296	51.996	49.396	46.796	42.897
45	24.698	24.698	25.998	25.998	25.998	25.998	24.698	24.698	22.098
50	15.599	15.599	15.599	15.599	15.599	16.899	16.899	16.899	14.299
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 : 6AR-P27-835-POE-ON-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2252.89	N.A.	84.80
0-30	2561.57	N.A.	96.40
0-40	2630.75	N.A.	99.00
0-60	2656.53	N.A.	100.00
0-80	2656.53	N.A.	100.00
0-90	2656.53	N.A.	100.00
10-90	1571.33	N.A.	59.10
20-40	377.87	N.A.	14.20
20-50	400.17	N.A.	15.10
40-70	25.78	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	2656.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1085.2
10-20	1167.69
20-30	308.68
30-40	69.19
40-50	22.30
50-60	3.48
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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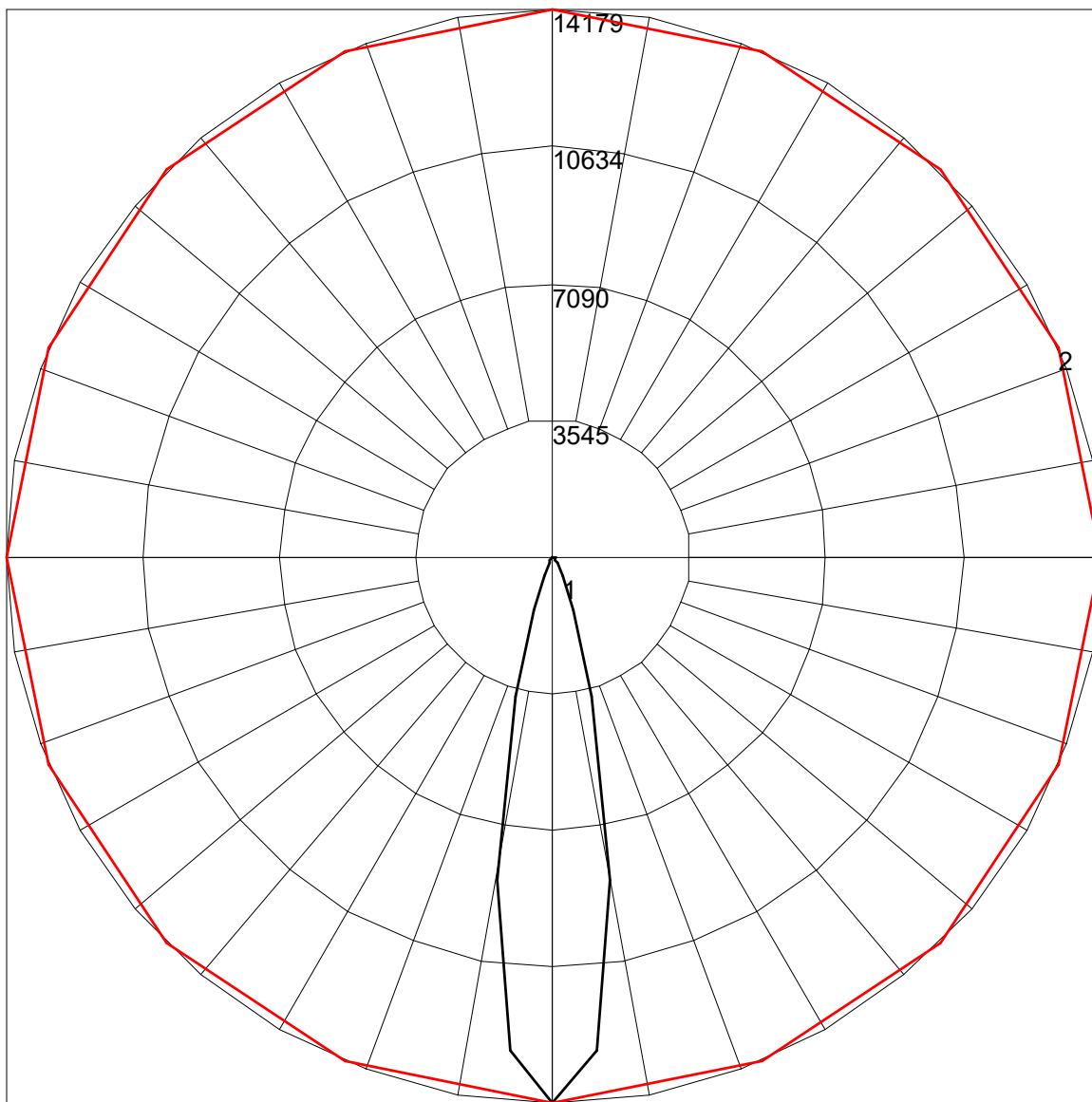
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	242	242	242	242	236	236	236	236	226	226	226	216	216	216	207	207	207	203
1	234	230	226	223	229	226	222	219	218	215	213	210	208	206	203	202	201	197
2	227	220	214	209	223	217	211	207	210	206	203	205	201	198	199	197	194	191
3	220	211	204	199	217	209	202	197	204	199	194	199	195	191	195	191	189	186
4	214	204	196	190	211	202	195	189	198	192	187	194	189	185	191	186	183	181
5	208	197	189	183	205	195	188	183	192	186	181	189	184	180	186	182	178	176
6	203	191	183	177	200	190	182	177	187	180	176	184	179	175	182	177	173	171
7	198	185	177	172	195	184	177	171	182	175	171	180	174	170	178	173	169	167
8	193	180	172	167	191	179	172	167	178	171	166	176	170	166	174	169	165	163
9	188	176	168	163	187	175	167	162	173	167	162	172	166	162	170	165	161	159
10	184	171	164	159	182	171	163	159	169	163	158	168	162	158	167	161	157	156

POLAR GRAPH



Maximum Candela = 14179.331 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.)