



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P27-835-POE-OM-OF-CS_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20392.0

[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 MED TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-P27-835-POE-OM-OF-CS_0 DEG 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	2658
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)	0.62
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.50
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	1409	1409	1409
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	8162.461	8162.461	8162.461	8162.461	8162.461	8162.461	8162.461	8162.461	8162.461
5	8144.265	8111.771	8075.378	8018.188	7975.297	7936.304	7912.908	7903.810	7902.510
10	7684.151	7675.053	7563.274	7441.097	7307.222	7177.247	6992.682	6938.092	6806.817
15	5839.799	5848.897	5692.927	5465.470	5092.440	4746.705	4380.174	4085.130	3782.287
20	2587.812	2668.397	2550.119	2379.851	2301.866	1945.733	1685.782	1542.809	1431.030
25	957.919	961.819	938.423	894.231	826.644	762.956	699.268	617.384	613.484
30	427.619	432.818	418.521	402.924	383.428	356.133	327.538	305.442	292.445
35	193.663	197.563	188.464	174.167	172.867	162.469	150.772	140.374	135.175
40	77.985	81.885	75.386	72.786	67.587	64.988	58.489	57.189	54.590
45	18.197	18.197	18.197	16.897	18.197	18.197	16.897	15.597	14.297
50	1.300	2.600	1.300	1.300	2.600	0.000	1.300	2.600	1.300
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	2059.45	N.A.	77.50
0-30	2518.32	N.A.	94.80
0-40	2637.7	N.A.	99.20
0-60	2657.69	N.A.	100.00
0-80	2657.69	N.A.	100.00
0-90	2657.69	N.A.	100.00
10-90	1917.66	N.A.	72.20
20-40	578.25	N.A.	21.80
20-50	597.89	N.A.	22.50
40-70	19.99	N.A.	0.80
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	2657.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	740.02
10-20	1319.42
20-30	458.87
30-40	119.38
40-50	19.63
50-60	0.35
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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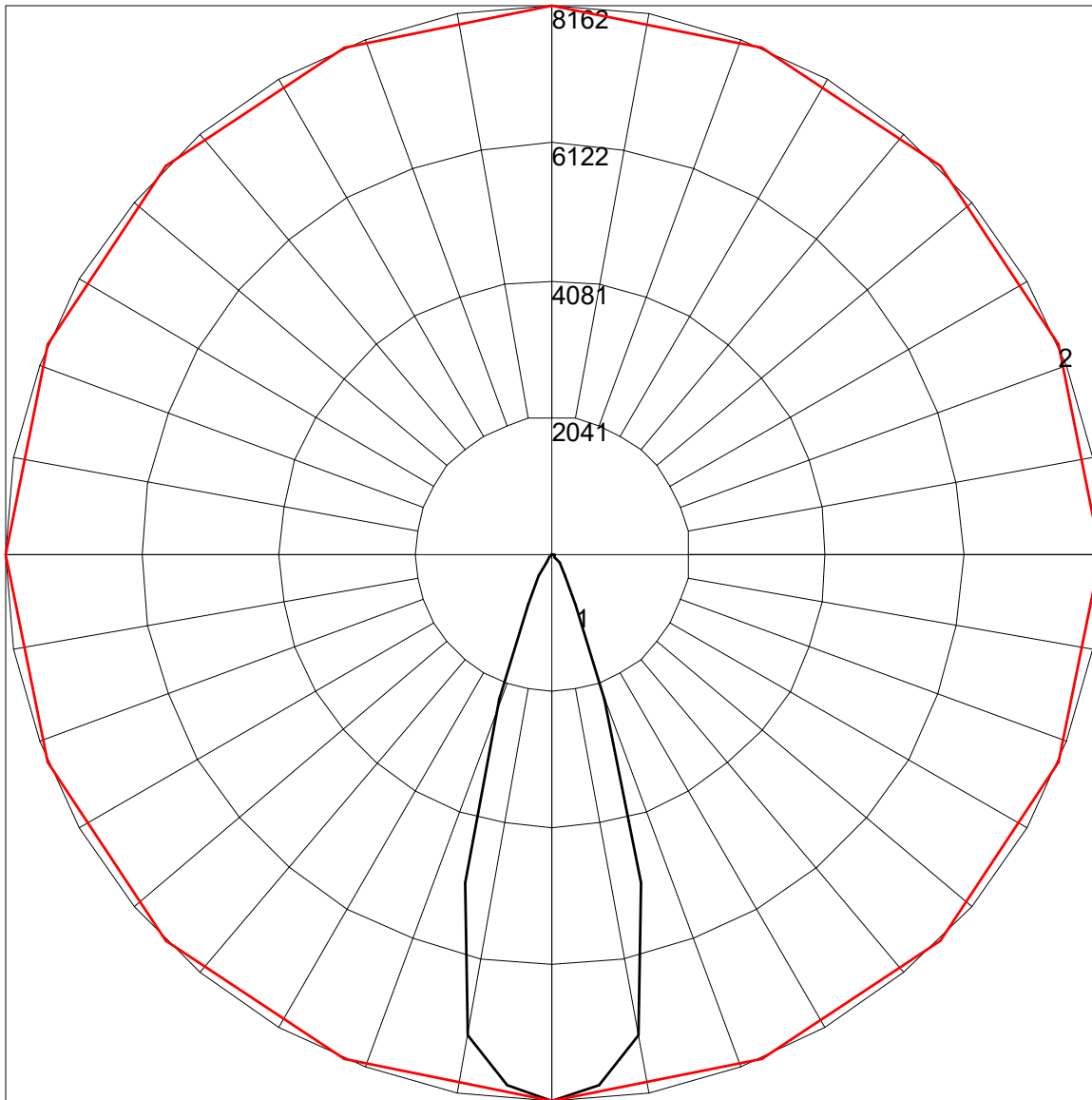
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	233	229	225	221	229	225	221	218	217	214	211	209	207	205	202	201	199	196
2	225	218	212	206	221	214	209	204	208	204	200	202	199	195	197	194	191	188
3	218	208	200	194	214	205	198	193	200	195	190	196	191	187	191	188	184	182
4	211	199	191	185	207	197	189	184	193	187	181	189	184	179	186	181	178	175
5	204	191	183	176	201	190	182	176	186	179	174	183	177	173	180	175	171	169
6	197	184	175	169	195	183	175	169	180	173	167	178	171	166	175	170	165	163
7	191	178	169	163	189	177	168	162	174	167	161	172	166	161	170	164	160	158
8	186	172	163	157	184	171	162	156	169	161	156	167	160	155	165	159	155	153
9	180	166	157	151	178	165	157	151	164	156	151	162	155	150	161	154	150	148
10	175	161	152	147	173	160	152	146	159	151	146	157	151	146	156	150	145	143

POLAR GRAPH



Maximum Candela = 8162.461 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.)