



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20389.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC WIDE TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-P27-835-PoE-OW-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	2651
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)	0.96
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.82
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	906	705	1208
55	0	124	248
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	3593.606	3593.606	3593.606	3593.606	3593.606	3593.606	3593.606	3593.606	3593.606
5	3607.908	3596.207	3589.706	3579.305	3566.303	3554.602	3535.100	3520.798	3511.697
10	3662.514	3645.612	3618.309	3600.107	3597.507	3594.907	3568.904	3544.201	3515.598
15	3656.014	3623.510	3584.505	3529.899	3501.296	3476.593	3432.388	3340.078	3301.073
20	3364.781	3405.085	3293.272	3271.170	3226.965	3146.356	3070.947	3030.643	2953.934
25	2489.782	2414.373	2484.581	2416.973	2367.568	2212.850	2193.348	2163.445	2116.639
30	1440.563	1457.465	1372.955	1280.645	1267.643	1239.040	1181.834	1135.028	1084.323
35	339.338	312.035	262.630	297.734	262.630	254.829	254.829	230.126	267.830
40	72.808	65.007	58.507	61.107	67.608	63.707	62.407	62.407	53.306
45	11.701	9.101	9.101	13.001	15.602	16.902	14.302	16.902	14.302
50	3.900	2.600	1.300	2.600	3.900	5.201	3.900	5.201	5.201
55	0.000	0.000	1.300	1.300	2.600	1.300	0.000	2.600	1.300
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	1314.09	N.A.	49.60
0-30	2347.88	N.A.	88.60
0-40	2631.61	N.A.	99.30
0-60	2650.58	N.A.	100.00
0-80	2650.58	N.A.	100.00
0-90	2650.58	N.A.	100.00
10-90	2308.98	N.A.	87.10
20-40	1317.53	N.A.	49.70
20-50	1335.15	N.A.	50.40
40-70	18.96	N.A.	0.70
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	2650.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	341.60
10-20	972.49
20-30	1033.79
30-40	283.73
40-50	17.62
50-60	1.34
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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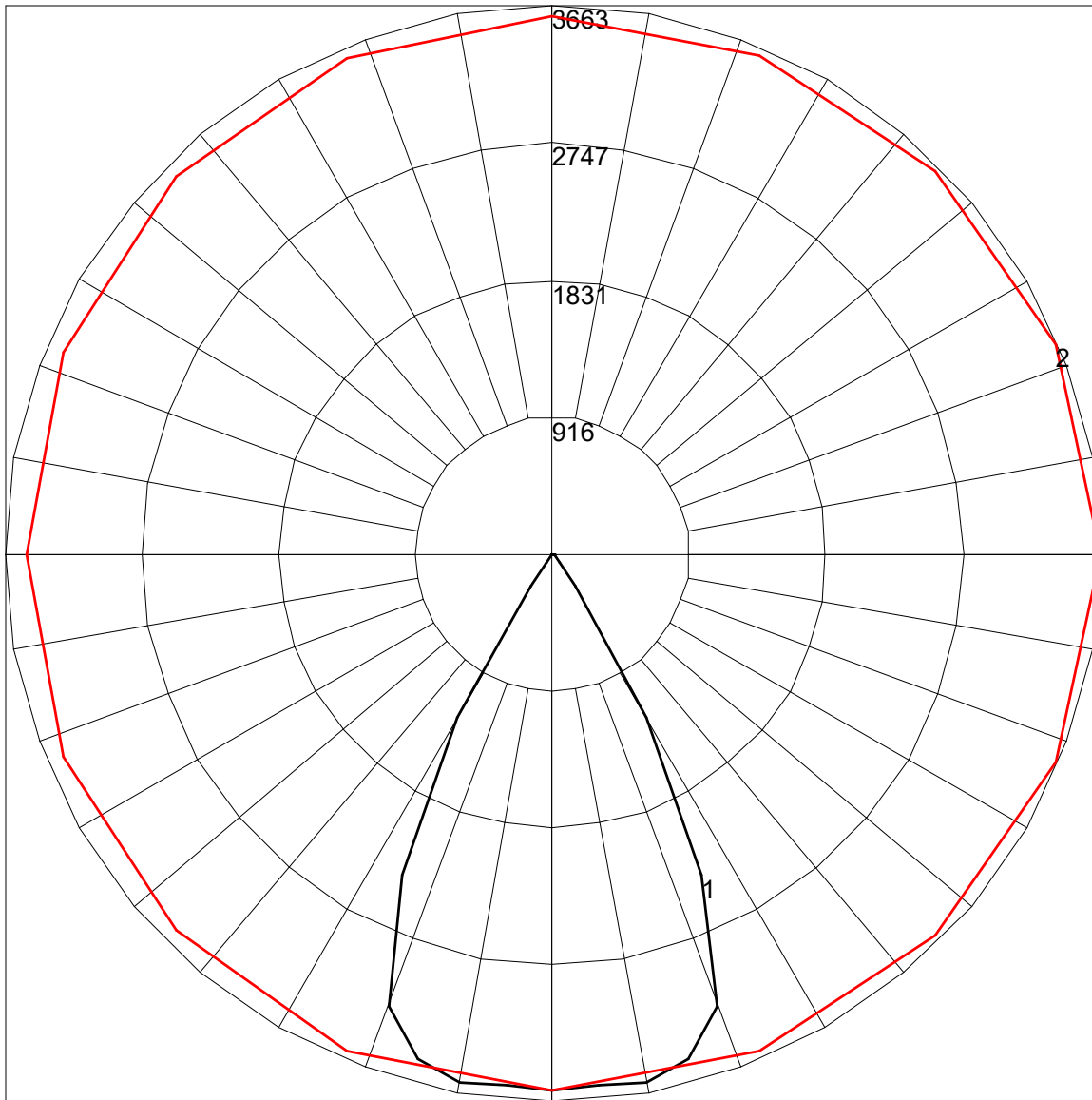
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	232	227	222	218	227	222	218	215	214	211	208	207	204	202	200	198	196	193
2	222	213	206	200	218	210	203	197	203	198	193	197	193	189	192	188	185	182
3	212	201	192	185	209	198	190	183	193	186	180	188	182	178	184	179	175	172
4	203	190	180	172	200	188	178	171	183	175	169	179	173	167	176	170	165	163
5	195	180	169	161	192	178	168	161	174	166	159	171	164	158	168	162	157	154
6	186	170	160	152	184	169	159	151	166	157	150	163	155	149	161	154	148	146
7	178	162	151	143	176	160	150	143	158	149	142	156	148	142	154	146	141	138
8	171	154	143	136	169	153	142	135	151	141	135	149	140	134	147	139	134	131
9	164	146	136	129	162	146	135	128	144	134	128	142	134	128	140	133	127	125
10	157	140	129	122	155	139	129	122	137	128	122	136	127	121	134	127	121	119

POLAR GRAPH



Maximum Candela = 3662.514 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)