



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P27-8TW-POE-OW-OF-CS 4000K_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-P27-8TW-PoE-OW-OF-CS 4000k_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	1778
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
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	608	473	810
55	0	83	167
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	2410.197	2410.197	2410.197	2410.197	2410.197	2410.197	2410.197	2410.197	2410.197
5	2419.789	2411.941	2407.581	2400.605	2391.885	2384.037	2370.957	2361.365	2355.261
10	2456.413	2445.077	2426.765	2414.557	2412.813	2411.069	2393.629	2377.061	2357.877
15	2452.053	2430.253	2404.093	2367.469	2348.285	2331.717	2302.069	2240.158	2213.998
20	2256.726	2283.757	2208.766	2193.942	2164.294	2110.230	2059.655	2032.623	1981.175
25	1669.872	1619.297	1666.384	1621.041	1587.905	1484.137	1471.057	1451.001	1419.609
30	966.172	977.507	920.828	858.916	850.196	831.012	792.644	761.252	727.245
35	227.591	209.279	176.143	199.687	176.143	170.911	170.911	154.343	179.631
40	48.832	43.600	39.240	40.984	45.344	42.728	41.856	41.856	35.752
45	7.848	6.104	6.104	8.720	10.464	11.336	9.592	11.336	9.592
50	2.616	1.744	0.872	1.744	2.616	3.488	2.616	3.488	3.488
55	0.000	0.000	0.872	0.872	1.744	0.872	0.000	1.744	0.872
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-P27-8TW-POE-OW-OF-CS 4000K_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	881.34	N.A.	49.60
0-30	1574.7	N.A.	88.60
0-40	1765.00	N.A.	99.30
0-60	1777.72	N.A.	100.00
0-80	1777.72	N.A.	100.00
0-90	1777.72	N.A.	100.00
10-90	1548.61	N.A.	87.10
20-40	883.65	N.A.	49.70
20-50	895.47	N.A.	50.40
40-70	12.72	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	1777.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	229.11
10-20	652.24
20-30	693.36
30-40	190.30
40-50	11.82
50-60	0.90
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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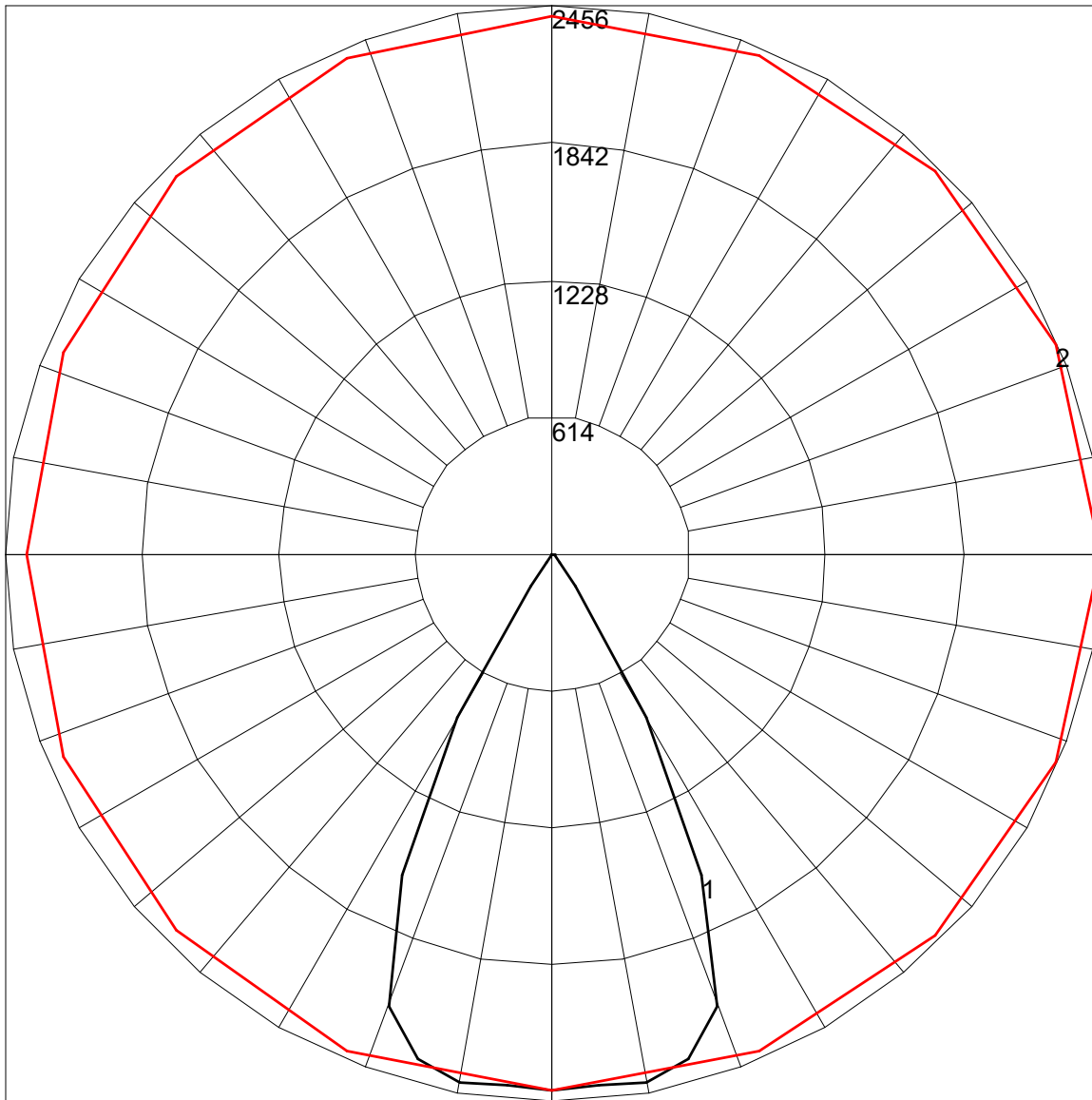
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	202	202	202	202	197	197	197	197	188	188	188	180	180	180	173	173	173	170
1	194	189	186	182	189	186	182	179	179	176	174	173	171	169	167	165	164	161
2	185	178	172	167	182	175	170	165	170	165	161	165	161	158	160	157	155	152
3	177	168	160	154	174	165	159	153	161	155	151	157	152	148	153	149	146	144
4	170	159	150	144	167	157	149	143	153	147	141	150	144	140	147	142	138	136
5	163	150	141	135	160	148	140	134	146	139	133	143	137	132	140	135	131	129
6	156	142	133	127	153	141	133	126	139	131	126	136	130	125	134	128	124	122
7	149	135	126	120	147	134	125	119	132	124	119	130	123	118	128	122	118	115
8	143	128	119	113	141	128	119	113	126	118	113	124	117	112	123	116	112	110
9	137	122	113	107	135	122	113	107	120	112	107	119	112	107	117	111	106	104
10	131	117	108	102	130	116	108	102	115	107	102	113	106	101	112	106	101	99

POLAR GRAPH



Maximum Candela = 2456.413 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.)