



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-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] 21-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-L15-835-DIM-UNV-ON-OF-CS_0 DEGREE TILT

[LAMPCAT] BXRE-35E2000

[_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	1541
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	15.1
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	1109	1168	1168
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	8223.692	8223.692	8223.692	8223.692	8223.692	8223.692	8223.692	8223.692	8223.692
5	7715.554	7740.433	7790.191	7554.216	7451.684	7272.253	7125.993	7125.240	6712.849
10	5683.002	5703.358	5502.063	5054.992	4955.476	4715.731	4472.217	4305.602	4264.890
15	2613.065	2800.036	2502.240	2339.395	2180.319	2104.173	1818.440	1751.342	1715.154
20	995.166	1023.061	949.931	907.712	856.446	829.305	723.757	673.999	686.815
25	378.465	389.020	358.863	343.031	336.246	306.843	284.226	258.592	244.268
30	135.704	136.458	129.673	124.396	119.872	115.349	101.778	99.517	98.763
35	60.313	61.821	60.313	58.051	58.805	55.790	53.528	52.020	49.758
40	28.649	29.403	30.157	30.157	30.910	30.157	28.649	27.141	24.879
45	14.324	14.324	15.078	15.078	15.078	15.078	14.324	14.324	12.817
50	9.047	9.047	9.047	9.047	9.047	9.801	9.801	9.801	8.293
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-L15-835-DIM-UNV-ON-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1306.62	N.A.	84.80
0-30	1485.65	N.A.	96.40
0-40	1525.78	N.A.	99.00
0-60	1540.73	N.A.	100.00
0-80	1540.73	N.A.	100.00
0-90	1540.73	N.A.	100.00
10-90	911.34	N.A.	59.10
20-40	219.16	N.A.	14.20
20-50	232.09	N.A.	15.10
40-70	14.95	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	1540.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	629.39
10-20	677.23
20-30	179.03
30-40	40.13
40-50	12.93
50-60	2.02
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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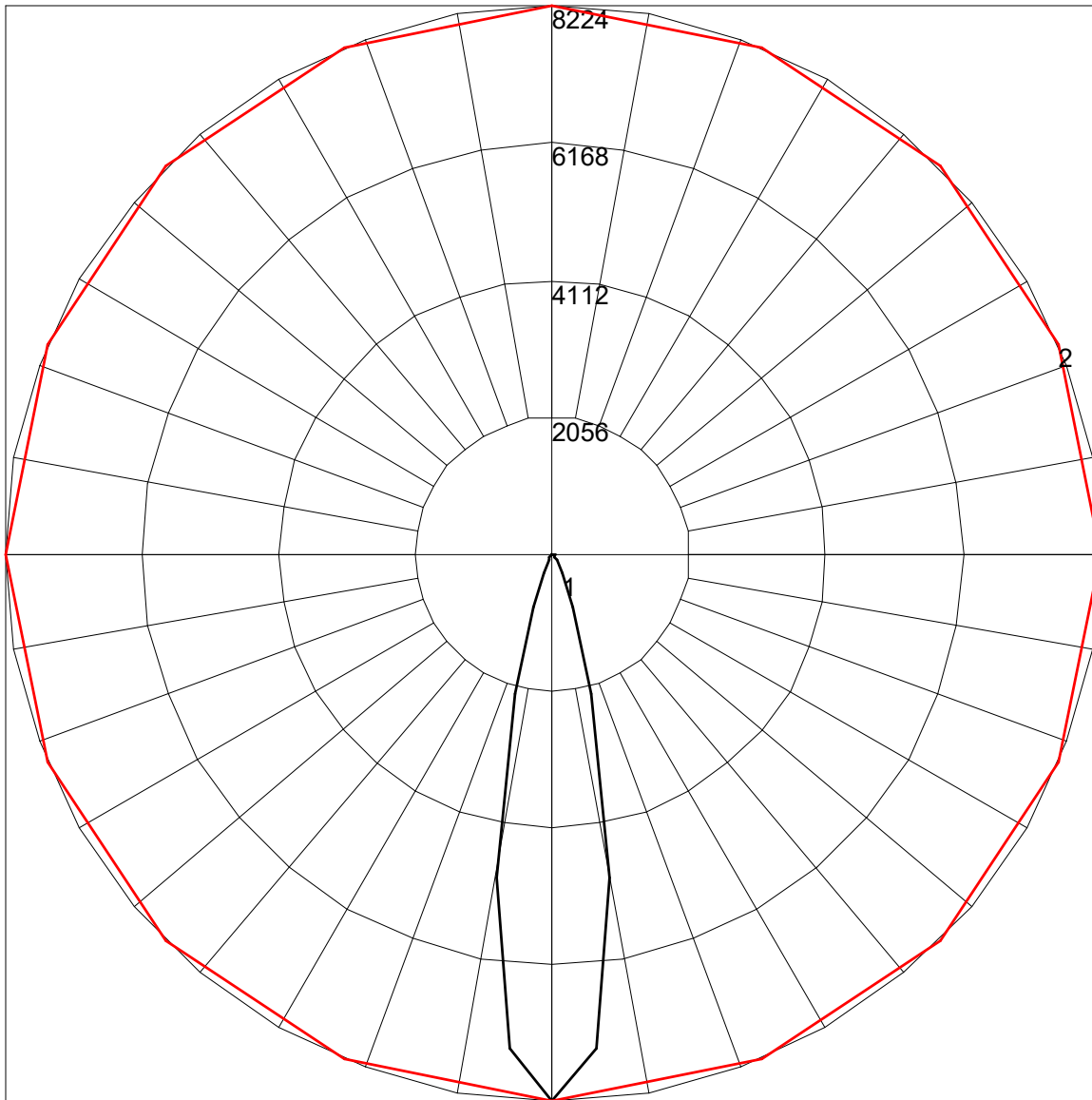
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	179	179	179	179	175	175	175	175	168	168	168	160	160	160	154	154	154	151
1	174	171	168	165	170	167	165	163	162	160	158	156	155	153	151	150	149	146
2	168	163	159	155	165	161	157	154	156	153	150	152	149	147	148	146	144	142
3	163	157	152	148	161	155	150	146	151	147	144	148	145	142	145	142	140	138
4	159	151	146	141	157	150	145	141	147	142	139	144	140	137	141	138	136	134
5	155	146	140	136	153	145	140	136	143	138	134	140	136	133	138	135	132	131
6	150	142	136	132	149	141	135	131	139	134	130	137	133	130	135	132	129	127
7	147	138	132	128	145	137	131	127	135	130	127	134	129	126	132	128	126	124
8	143	134	128	124	142	133	128	124	132	127	123	130	126	123	129	125	122	121
9	140	130	125	121	138	130	124	121	129	124	120	128	123	120	127	123	120	118
10	137	127	122	118	135	127	121	118	126	121	117	125	120	117	124	120	117	116

POLAR GRAPH



Maximum Candela = 8223.692 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.)