



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-835-DIM-UNV-AM-OF-WH\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20410.0

[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] ACRYLIC MED TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED SOLITE

[MORE] LENS ADVANCE #XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L30-835-DIM-UNV-AM-OF-WH\_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	2506
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	31.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.52
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	4590	4808	5136
55	2829	3098	2964
65	2925	2742	1463
75	3284	2388	896
85	887	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>
<b>0</b>	7378.510	7378.510	7378.510	7378.510	7378.510	7378.510	7378.510	7378.510	7378.510
<b>5</b>	7176.765	7183.819	7152.781	7109.046	6976.431	6901.658	6794.437	6635.016	6599.746
<b>10</b>	6211.774	6153.931	6162.396	6113.018	5993.100	5726.457	5472.513	5253.838	5061.968
<b>15</b>	4360.798	4424.284	4404.533	4310.009	4098.388	3811.995	3549.585	3333.732	3208.171
<b>20</b>	2356.044	2473.141	2475.963	2334.882	2178.283	1949.732	1866.495	1788.901	1721.182
<b>25</b>	1125.822	1179.433	1121.590	1070.801	1012.958	938.185	926.899	904.326	900.094
<b>30</b>	506.479	536.106	507.890	466.976	457.101	469.798	466.976	469.798	474.030
<b>35</b>	244.069	246.891	239.837	224.318	215.853	220.086	235.604	249.712	245.480
<b>40</b>	119.918	126.972	124.151	114.275	115.686	115.686	126.972	132.616	132.616
<b>45</b>	59.254	62.075	62.075	62.075	66.308	69.129	73.362	76.183	76.183
<b>50</b>	35.270	38.092	39.503	43.735	45.146	45.146	45.146	50.789	50.789
<b>55</b>	29.627	31.038	32.449	33.859	31.038	29.627	29.627	31.038	33.859
<b>60</b>	26.805	26.805	29.627	26.805	23.984	19.751	16.930	18.340	18.340
<b>65</b>	22.573	21.162	21.162	18.340	11.286	8.465	8.465	4.232	4.232
<b>70</b>	19.751	21.162	19.751	12.697	8.465	4.232	4.232	2.822	4.232
<b>75</b>	15.519	12.697	11.286	7.054	4.232	1.411	0.000	0.000	1.411
<b>80</b>	5.643	5.643	4.232	1.411	0.000	0.000	0.000	0.000	0.000
<b>85</b>	1.411	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6AR-L30-835-DIM-UNV-AM-OF-WH\_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1711.17	N.A.	68.30
0-30	2232.84	N.A.	89.10
0-40	2398.18	N.A.	95.70
0-60	2484.77	N.A.	99.10
0-80	2505.94	N.A.	100.00
0-90	2506.47	N.A.	100.00
10-90	1878.32	N.A.	74.90
20-40	687.00	N.A.	27.40
20-50	744.69	N.A.	29.70
40-70	101.52	N.A.	4.10
60-80	21.17	N.A.	0.80
70-80	6.25	N.A.	0.20
80-90	0.53	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	2506.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	628.15
10-20	1083.03
20-30	521.67
30-40	165.33
40-50	57.68
50-60	28.91
60-70	14.93
70-80	6.25
80-90	0.53
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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## 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	336	336	336	336	328	328	328	328	314	314	314	300	300	300	288	288	288	282
1	323	316	310	305	316	310	305	300	299	295	291	289	285	282	279	277	274	269
2	311	299	290	282	305	294	286	278	285	278	272	277	272	267	270	265	261	257
3	299	284	272	263	293	280	269	261	273	264	257	266	259	253	260	254	249	245
4	288	270	258	248	283	267	256	246	261	252	244	256	248	241	251	244	238	235
5	277	258	245	235	273	256	243	234	251	240	232	247	237	230	242	235	228	225
6	267	247	234	224	264	245	233	223	241	230	222	238	228	220	234	226	219	216
7	258	237	224	214	255	236	223	214	232	221	213	229	219	212	226	217	211	207
8	249	228	215	206	247	227	214	205	224	213	204	221	211	204	219	210	203	200
9	241	220	207	198	239	219	206	197	216	205	197	214	204	196	212	202	196	193
10	234	212	199	191	231	211	199	190	209	198	190	207	197	189	205	196	189	186

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

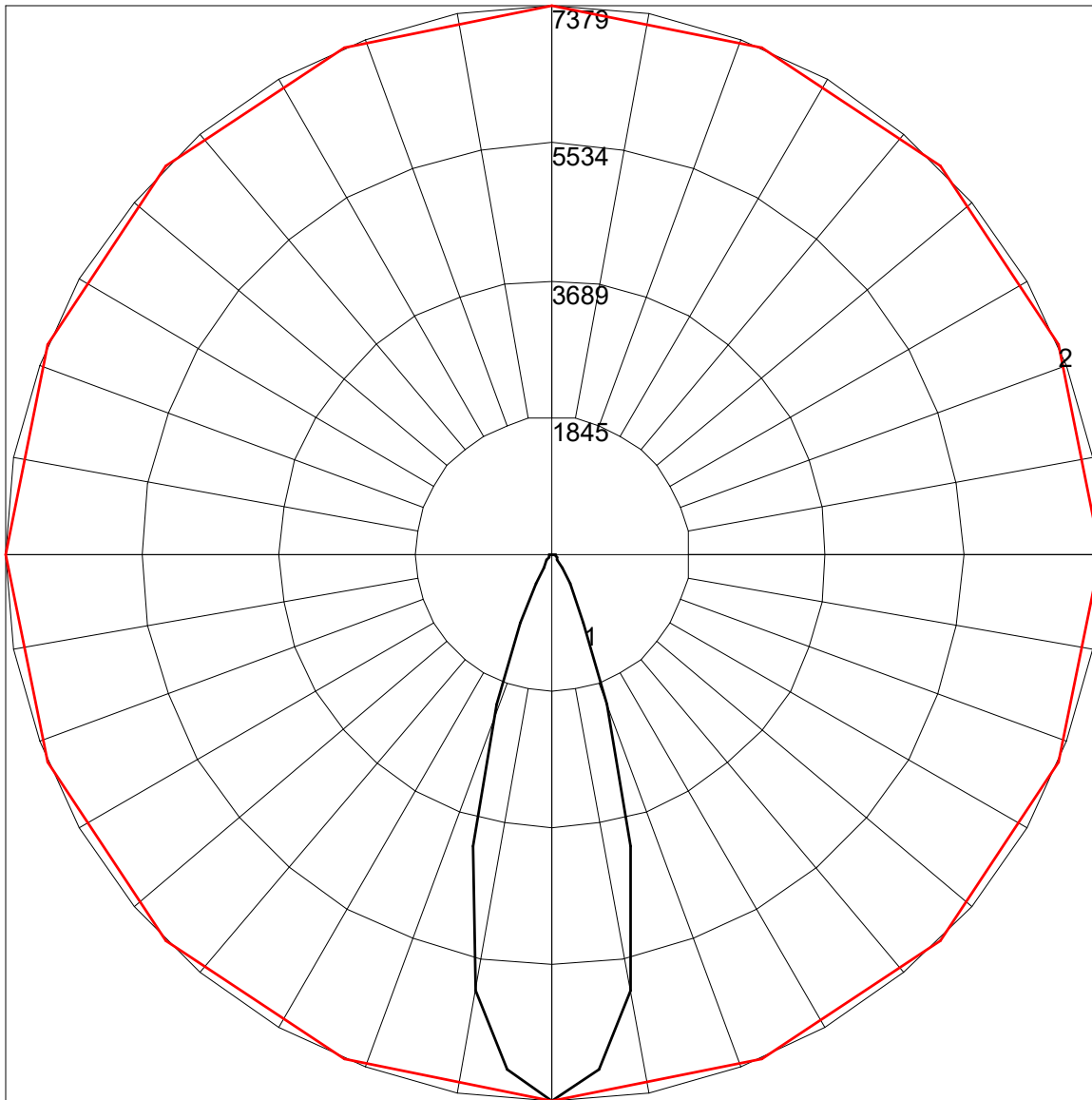
X=2H	Y=2H	3.1	4.1	3.5	4.4	4.7	2.8	3.7	3.1	4.0	4.3
	3H	5.3	6.2	5.7	6.5	6.9	3.3	4.2	3.7	4.5	4.9
	4H	6.2	7.0	6.6	7.3	7.7	3.5	4.2	3.9	4.6	5.0
	6H	6.6	7.3	7.0	7.6	8.0	3.4	4.1	3.8	4.4	4.8
	8H	6.6	7.3	7.1	7.6	8.1	3.3	4.0	3.8	4.4	4.8
	12H	6.6	7.2	7.0	7.6	8.0	3.2	3.9	3.7	4.3	4.7

### UGR Viewed Endwise

4H	2H	3.6	4.4	4.0	4.7	5.1	3.0	3.8	3.4	4.1	4.5
	3H	6.2	6.8	6.6	7.2	7.6	3.8	4.5	4.3	4.9	5.3
	4H	7.0	7.6	7.5	8.0	8.5	4.0	4.5	4.4	5.0	5.4
	6H	7.5	7.9	7.9	8.4	8.9	3.9	4.4	4.4	4.9	5.3
	8H	7.5	7.9	8.0	8.4	8.9	3.9	4.3	4.3	4.8	5.2
	12H	7.5	7.8	8.0	8.3	8.8	3.8	4.2	4.3	4.7	5.1
8H	4H	7.1	7.6	7.6	8.0	8.5	4.2	4.6	4.6	5.1	5.5
	6H	7.6	8.0	8.1	8.5	8.9	4.1	4.5	4.7	5.0	5.5
	8H	7.7	8.0	8.2	8.5	9.0	4.0	4.4	4.6	4.9	5.4
	12H	7.7	7.9	8.2	8.4	9.0	4.0	4.3	4.5	4.8	5.3
12H	4H	7.1	7.4	7.6	7.9	8.4	4.1	4.5	4.6	5.0	5.5
	6H	7.5	7.9	8.1	8.3	8.9	4.1	4.4	4.6	4.9	5.4
	8H	7.6	7.9	8.2	8.4	9.0	4.1	4.3	4.6	4.8	5.4

Maximum UGR = 9.0

POLAR GRAPH



Maximum Candela = 7378.51 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.)