



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20407.0

[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 WIDE TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED SOLITE

[MORE] LENS ADVANCE #XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L30-835-DIM-UNV-AW-OF-WH\_0 DEG 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	2145
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	31.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.74
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	6026	6473	7477
55	4953	5641	5778
65	5789	5789	4108
75	6403	5183	2134
85	2717	0	0

# IES INDOOR REPORT

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

## 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>	3089.204	3089.204	3089.204	3089.204	3089.204	3089.204	3089.204	3089.204	3089.204
<b>5</b>	3071.914	3066.150	3067.591	3082.000	3105.053	3119.462	3130.989	3129.548	3113.699
<b>10</b>	3014.279	3009.957	3020.043	3044.537	3082.000	3093.526	3087.763	3053.182	3011.397
<b>15</b>	2769.333	2799.591	2801.032	2819.763	2845.699	2832.731	2765.010	2688.645	2589.225
<b>20</b>	2259.269	2280.881	2269.355	2282.322	2278.000	2286.645	2169.935	2071.957	1968.215
<b>25</b>	1414.925	1476.882	1488.408	1514.344	1504.258	1515.785	1443.742	1321.269	1267.957
<b>30</b>	739.161	749.247	757.892	769.419	759.333	763.656	746.365	724.753	690.172
<b>35</b>	344.366	364.538	350.129	345.806	347.247	358.774	373.183	357.333	340.043
<b>40</b>	159.935	171.462	175.785	170.021	175.785	185.871	193.075	191.634	188.753
<b>45</b>	77.806	80.688	83.570	89.333	96.538	102.301	109.505	109.505	102.301
<b>50</b>	57.634	60.516	66.280	72.043	74.925	73.484	72.043	67.720	66.280
<b>55</b>	51.871	53.312	59.075	63.398	60.516	53.312	47.548	41.785	40.344
<b>60</b>	50.430	51.871	54.753	51.871	44.667	37.462	28.817	25.935	23.054
<b>65</b>	44.667	44.667	44.667	40.344	31.699	24.495	17.290	8.645	7.204
<b>70</b>	40.344	38.903	34.581	28.817	20.172	12.968	4.323	4.323	2.882
<b>75</b>	30.258	28.817	24.495	14.409	10.086	4.323	2.882	4.323	2.882
<b>80</b>	17.290	14.409	12.968	7.204	1.441	0.000	0.000	0.000	0.000
<b>85</b>	4.323	2.882	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-AW-OF-WH\_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1051.68	N.A.	49.00
0-30	1714.86	N.A.	80.00
0-40	1966.5	N.A.	91.70
0-60	2098.86	N.A.	97.90
0-80	2142.85	N.A.	99.90
0-90	2144.71	N.A.	100.00
10-90	1850.74	N.A.	86.30
20-40	914.82	N.A.	42.70
20-50	998.82	N.A.	46.60
40-70	162.44	N.A.	7.60
60-80	44.00	N.A.	2.10
70-80	13.91	N.A.	0.60
80-90	1.86	N.A.	0.10
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	2144.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	293.97
10-20	757.71
20-30	663.18
30-40	251.64
40-50	84.01
50-60	48.35
60-70	30.09
70-80	13.91
80-90	1.86
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

# IES INDOOR REPORT

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

## 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	343	343	343	343	335	335	335	335	320	320	320	307	307	307	294	294	294	288
1	328	320	313	306	320	313	307	301	302	297	292	291	287	283	281	278	275	270
2	312	298	287	278	306	293	283	274	284	276	268	276	269	263	268	262	257	253
3	297	279	266	255	292	275	263	253	268	257	249	261	252	245	255	247	241	237
4	283	263	247	236	278	259	245	234	253	241	232	248	237	229	242	234	226	222
5	270	248	232	220	266	245	230	219	240	227	217	235	224	215	231	221	213	209
6	258	234	218	206	254	232	217	205	228	214	204	224	212	203	220	209	201	197
7	247	222	205	194	243	220	204	193	216	202	192	213	201	191	210	199	190	187
8	236	211	194	183	233	209	194	183	206	192	182	203	191	181	200	189	181	177
9	226	200	184	174	223	199	184	173	196	182	173	194	181	172	192	180	172	168
10	217	191	175	165	214	190	175	165	187	174	164	185	173	164	183	172	163	160

# IES INDOOR REPORT

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

## 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

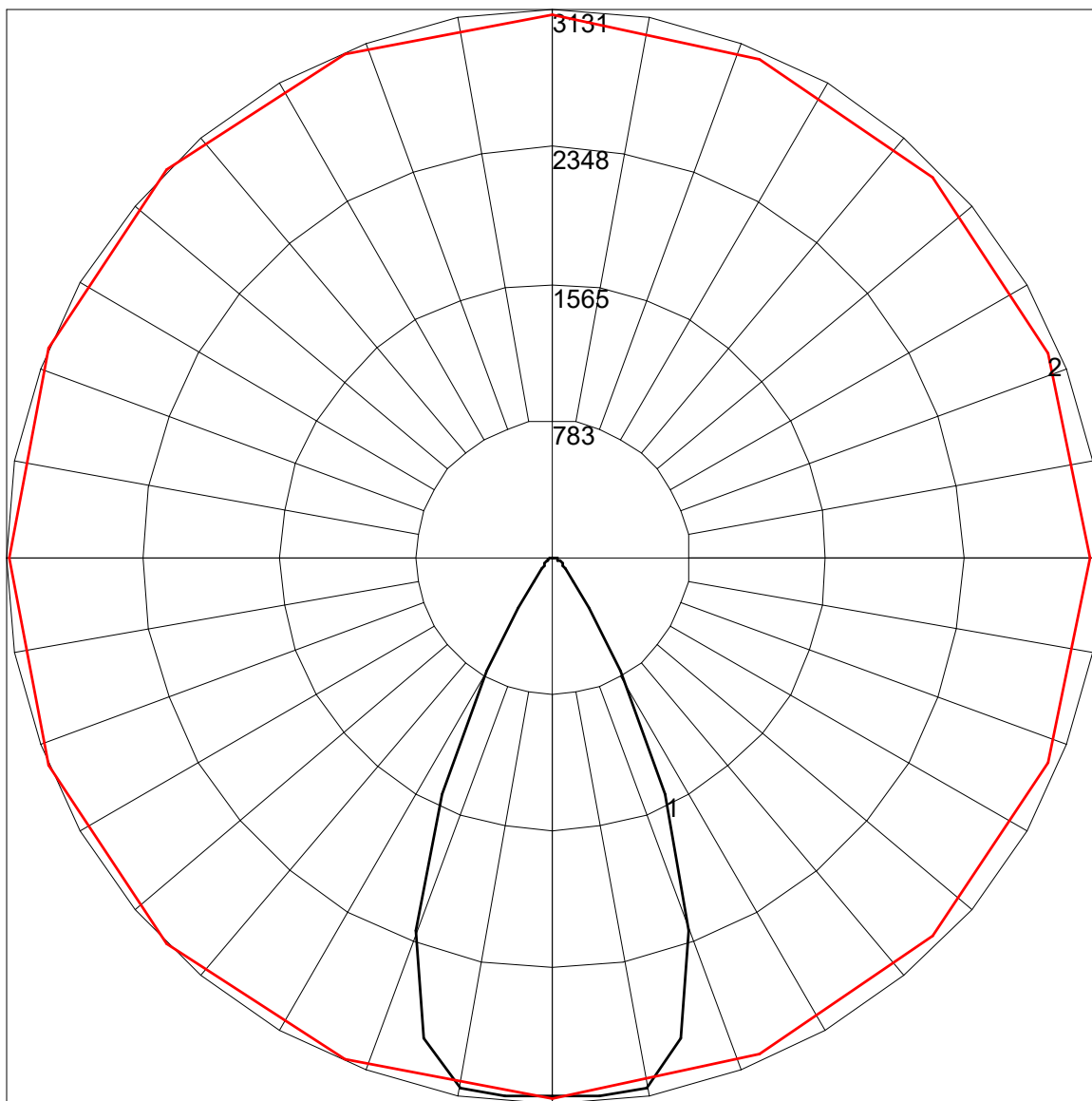
X=2H	Y=2H	7.7	8.7	8.1	9.0	9.3	7.6	8.6	7.9	8.9	9.2
	3H	10.2	11.1	10.6	11.4	11.8	8.6	9.5	9.0	9.8	10.2
	4H	11.2	12.0	11.6	12.4	12.8	8.8	9.6	9.2	10.0	10.3
	6H	11.8	12.6	12.3	12.9	13.3	8.8	9.5	9.2	9.9	10.3
	8H	12.0	12.7	12.4	13.1	13.5	8.7	9.4	9.1	9.8	10.2
	12H	12.0	12.7	12.4	13.1	13.5	8.6	9.3	9.1	9.7	10.1

### UGR Viewed Endwise

4H	2H	8.4	9.3	8.8	9.6	10.0	7.9	8.8	8.3	9.1	9.5
	3H	11.1	11.7	11.5	12.2	12.6	9.2	9.8	9.6	10.2	10.6
	4H	12.2	12.8	12.6	13.2	13.6	9.4	10.0	9.8	10.4	10.9
	6H	12.9	13.4	13.3	13.8	14.3	9.4	9.9	9.9	10.4	10.8
	8H	13.0	13.5	13.5	14.0	14.4	9.3	9.8	9.8	10.3	10.7
	12H	13.1	13.5	13.6	14.0	14.4	9.3	9.7	9.8	10.2	10.7
8H	4H	12.3	12.8	12.8	13.3	13.7	9.6	10.1	10.1	10.5	11.0
	6H	13.1	13.5	13.6	14.0	14.5	9.7	10.1	10.2	10.6	11.1
	8H	13.3	13.7	13.9	14.2	14.7	9.6	10.0	10.2	10.5	11.0
	12H	13.4	13.7	13.9	14.2	14.8	9.6	9.9	10.1	10.4	11.0
12H	4H	12.3	12.7	12.8	13.2	13.7	9.6	10.0	10.1	10.5	11.0
	6H	13.1	13.4	13.6	13.9	14.5	9.7	10.0	10.2	10.5	11.1
	8H	13.3	13.6	13.9	14.1	14.7	9.7	10.0	10.2	10.5	11.1

Maximum UGR = 14.8

POLAR GRAPH



Maximum Candela = 3130.989 Located At Horizontal Angle = 135, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)