



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-AN-OF-WH\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20413.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-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] ACRYC NARROW TIR OPTIC & 6"WHITE TRIM w/ANGLED

[MORE] SOLITE LENS ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L15-835-DIM-UNV-AN-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	1368
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	15.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.44
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	2336	2453	2336
55	1296	1368	1368
65	1173	1173	586
75	958	958	319
85	474	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>	5761.587	5761.587	5761.587	5761.587	5761.587	5761.587	5761.587	5761.587	5761.587
<b>5</b>	5551.184	5637.909	5538.364	5367.929	5162.050	4950.139	4784.983	4616.811	4496.150
<b>10</b>	4328.732	4341.552	4229.940	3898.875	3669.618	3341.570	3165.102	3044.441	2955.453
<b>15</b>	2562.549	2588.944	2431.330	2162.858	1975.832	1791.824	1693.032	1631.193	1604.798
<b>20</b>	1228.485	1269.208	1156.088	978.867	912.503	836.335	797.874	819.744	822.761
<b>25</b>	515.828	536.190	466.055	410.249	370.280	358.968	355.197	392.150	398.937
<b>30</b>	220.961	223.224	199.846	172.697	150.073	158.368	166.664	192.304	208.141
<b>35</b>	95.021	96.529	89.742	79.938	79.938	79.184	85.971	98.792	108.595
<b>40</b>	50.527	53.544	50.527	48.265	49.773	49.773	51.281	55.052	58.822
<b>45</b>	30.165	30.920	31.674	31.674	30.165	30.165	32.428	33.182	34.690
<b>50</b>	21.116	21.116	21.870	21.870	21.116	21.116	22.624	22.624	24.132
<b>55</b>	13.574	14.329	14.329	15.083	14.329	13.574	14.329	15.837	15.837
<b>60</b>	10.558	12.066	11.312	11.312	9.804	9.050	8.295	9.050	9.050
<b>65</b>	9.050	9.804	9.050	8.295	4.525	4.525	3.771	2.262	2.262
<b>70</b>	7.541	7.541	6.033	4.525	2.262	1.508	0.000	0.754	0.000
<b>75</b>	4.525	6.787	4.525	3.017	1.508	0.754	0.000	0.000	0.000
<b>80</b>	3.771	3.017	2.262	1.508	1.508	0.000	0.000	0.754	0.754
<b>85</b>	0.754	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-L15-835-DIM-UNV-AN-OF-WH\_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1032.78	N.A.	75.50
0-30	1255.18	N.A.	91.80
0-40	1318.94	N.A.	96.40
0-60	1358.76	N.A.	99.30
0-80	1367.51	N.A.	100.00
0-90	1367.92	N.A.	100.00
10-90	922.78	N.A.	67.50
20-40	286.16	N.A.	20.90
20-50	312.36	N.A.	22.80
40-70	46.08	N.A.	3.40
60-80	8.75	N.A.	0.60
70-80	2.49	N.A.	0.20
80-90	0.41	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	1367.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	445.14
10-20	587.64
20-30	222.40
30-40	63.76
40-50	26.20
50-60	13.62
60-70	6.26
70-80	2.49
80-90	0.41
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	180	180	180	180	175	175	175	175	168	168	168	160	160	160	154	154	154	151
1	173	170	167	164	169	167	164	161	160	158	156	155	153	152	150	149	147	145
2	167	161	156	152	164	159	154	151	154	150	147	150	147	144	146	143	141	139
3	161	154	148	143	158	152	147	142	148	144	140	145	141	138	141	138	136	134
4	156	147	141	136	153	146	140	135	143	138	134	140	136	132	137	134	131	129
5	151	141	135	130	149	140	134	129	138	132	128	135	131	127	133	129	126	124
6	146	136	129	125	144	135	129	124	133	128	123	131	126	123	129	125	122	120
7	142	131	125	120	140	130	124	120	129	123	119	127	122	119	126	121	118	116
8	137	127	120	116	136	126	120	116	125	119	115	123	118	115	122	118	114	113
9	134	123	117	112	132	122	116	112	121	116	112	120	115	111	119	114	111	109
10	130	119	113	109	129	119	113	109	118	112	108	117	112	108	116	111	108	106

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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	1.9	2.8	2.2	3.1	3.4	1.4	2.4	1.8	2.7	3.0
	3H	3.6	4.4	4.0	4.8	5.2	1.8	2.6	2.1	2.9	3.3
	4H	4.3	5.1	4.7	5.4	5.8	1.8	2.6	2.2	2.9	3.3
	6H	4.8	5.5	5.2	5.9	6.3	1.9	2.5	2.3	2.9	3.3
	8H	5.0	5.6	5.4	6.0	6.4	1.9	2.5	2.3	2.9	3.3
	12H	5.0	5.6	5.4	6.0	6.4	1.8	2.4	2.3	2.8	3.2

### UGR Viewed Endwise

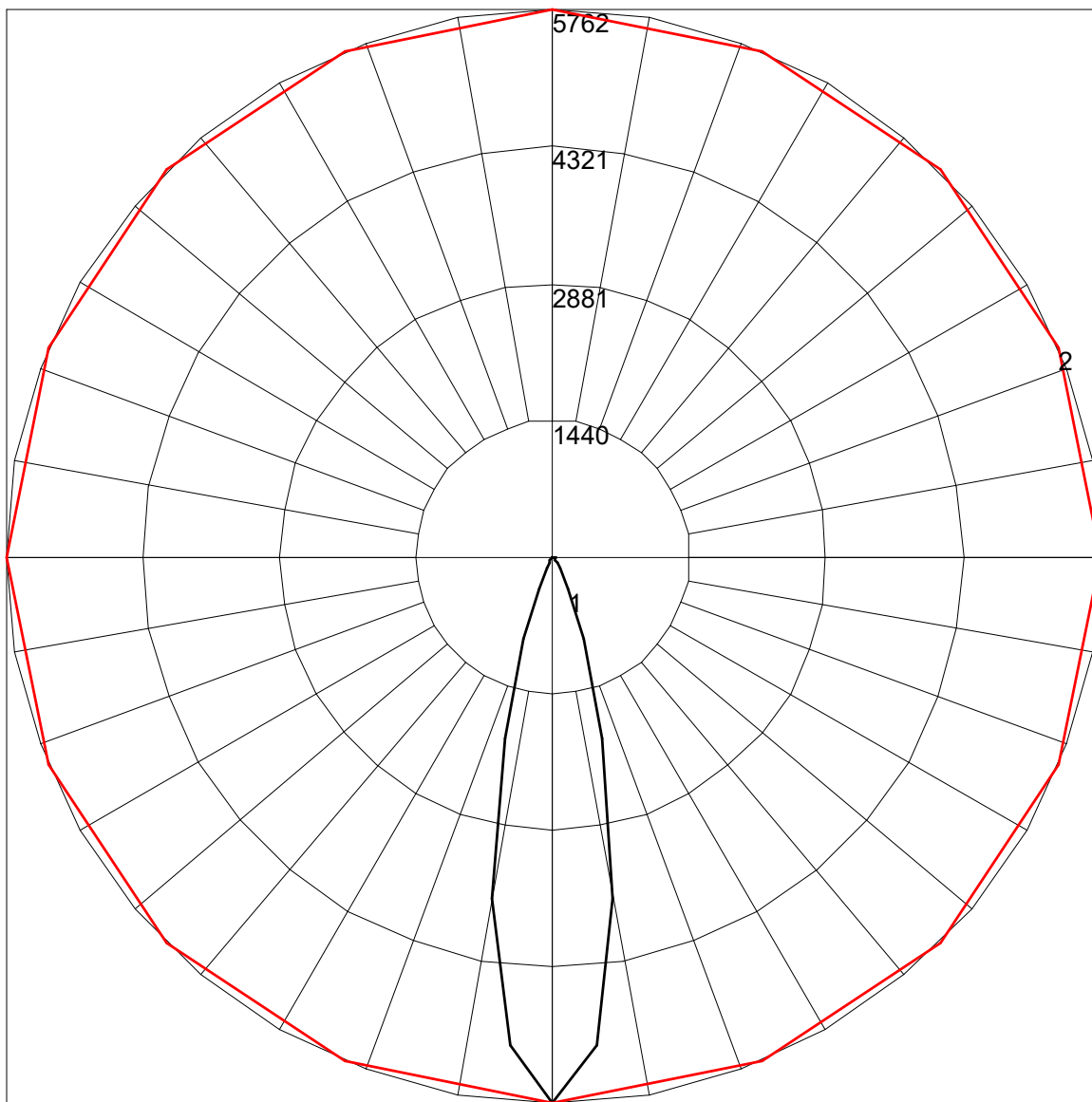
4H	2H	2.3	3.1	2.7	3.4	3.8	1.6	2.4	2.0	2.7	3.1
	3H	4.3	4.9	4.7	5.3	5.7	2.1	2.7	2.5	3.1	3.5
	4H	5.2	5.8	5.7	6.2	6.7	2.2	2.8	2.7	3.2	3.7
	6H	5.9	6.3	6.4	6.8	7.3	2.3	2.8	2.8	3.3	3.7
	8H	6.0	6.5	6.5	6.9	7.4	2.3	2.8	2.8	3.2	3.7
	12H	6.0	6.4	6.5	6.9	7.4	2.3	2.7	2.8	3.2	3.6

8H	4H	5.3	5.8	5.8	6.2	6.7	2.4	2.8	2.9	3.3	3.8
	6H	6.1	6.4	6.6	6.9	7.4	2.6	2.9	3.1	3.4	3.9
	8H	6.3	6.5	6.8	7.1	7.6	2.6	2.9	3.1	3.4	3.9
	12H	6.3	6.5	6.8	7.0	7.6	2.5	2.8	3.1	3.3	3.9

12H	4H	5.3	5.7	5.8	6.1	6.6	2.4	2.8	2.9	3.2	3.7
	6H	6.0	6.3	6.6	6.8	7.4	2.6	2.9	3.1	3.3	3.9
	8H	6.2	6.5	6.8	7.0	7.6	2.6	2.9	3.1	3.4	3.9

Maximum UGR = 7.6

POLAR GRAPH



Maximum Candela = 5761.587 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.)