



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-835-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-MAY-2018

[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-L30-835-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	2441
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	31.3
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	4169	4378	4169
55	2313	2441	2441
65	2093	2093	1046
75	1709	1709	569
85	846	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	10280.727	10280.727	10280.727	10280.727	10280.727	10280.727	10280.727	10280.727	10280.727
5	9905.292	10060.042	9882.417	9578.301	9210.940	8832.813	8538.117	8238.038	8022.735
10	7724.002	7746.878	7547.723	6956.984	6547.908	5962.553	5647.672	5432.369	5273.583
15	4572.502	4619.599	4338.359	3859.310	3525.590	3197.252	3020.973	2910.630	2863.532
20	2192.056	2264.720	2062.874	1746.647	1628.230	1492.320	1423.692	1462.716	1468.099
25	920.421	956.754	831.609	732.031	660.712	640.527	633.799	699.735	711.846
30	394.274	398.311	356.596	308.153	267.783	282.585	297.388	343.139	371.398
35	169.551	172.243	160.132	142.638	142.638	141.293	153.404	176.279	193.773
40	90.158	95.541	90.158	86.121	88.813	88.813	91.504	98.232	104.960
45	53.826	55.171	56.517	56.517	53.826	53.826	57.863	59.208	61.900
50	37.678	37.678	39.024	39.024	37.678	37.678	40.369	40.369	43.061
55	24.222	25.567	25.567	26.913	25.567	24.222	25.567	28.259	28.259
60	18.839	21.530	20.185	20.185	17.493	16.148	14.802	16.148	16.148
65	16.148	17.493	16.148	14.802	8.074	8.074	6.728	4.037	4.037
70	13.456	13.456	10.765	8.074	4.037	2.691	0.000	1.346	0.000
75	8.074	12.111	8.074	5.383	2.691	1.346	0.000	0.000	0.000
80	6.728	5.383	4.037	2.691	2.691	0.000	0.000	1.346	1.346
85	1.346	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-L30-835-DIM-UNV-AN-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1842.85	N.A.	75.50
0-30	2239.68	N.A.	91.80
0-40	2353.46	N.A.	96.40
0-60	2424.52	N.A.	99.30
0-80	2440.12	N.A.	100.00
0-90	2440.85	N.A.	100.00
10-90	1646.56	N.A.	67.50
20-40	510.61	N.A.	20.90
20-50	557.37	N.A.	22.80
40-70	82.23	N.A.	3.40
60-80	15.61	N.A.	0.60
70-80	4.44	N.A.	0.20
80-90	0.73	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	2440.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	794.29
10-20	1048.56
20-30	396.83
30-40	113.78
40-50	46.76
50-60	24.30
60-70	11.17
70-80	4.44
80-90	0.73
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	320	320	320	320	313	313	313	313	299	299	299	286	286	286	275	275	275	269
1	309	303	297	293	302	297	292	288	286	283	279	276	274	271	267	265	263	259
2	298	288	279	272	292	283	275	269	275	269	263	267	262	258	260	256	252	248
3	288	274	264	256	283	271	261	254	264	256	250	258	252	246	252	247	242	239
4	278	263	251	243	274	260	249	241	254	246	239	249	242	236	245	239	233	230
5	269	252	241	232	265	250	239	231	246	236	229	241	233	227	238	231	225	222
6	261	243	231	222	257	241	230	222	237	228	220	234	225	219	231	223	218	215
7	253	234	222	214	250	233	222	214	230	220	213	227	218	212	224	217	211	208
8	245	227	215	207	243	225	214	206	223	213	206	220	211	205	218	210	204	201
9	238	219	208	200	236	218	207	200	216	206	199	214	205	199	212	204	198	195
10	232	213	202	194	230	212	201	194	210	200	193	208	199	193	207	198	192	190

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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

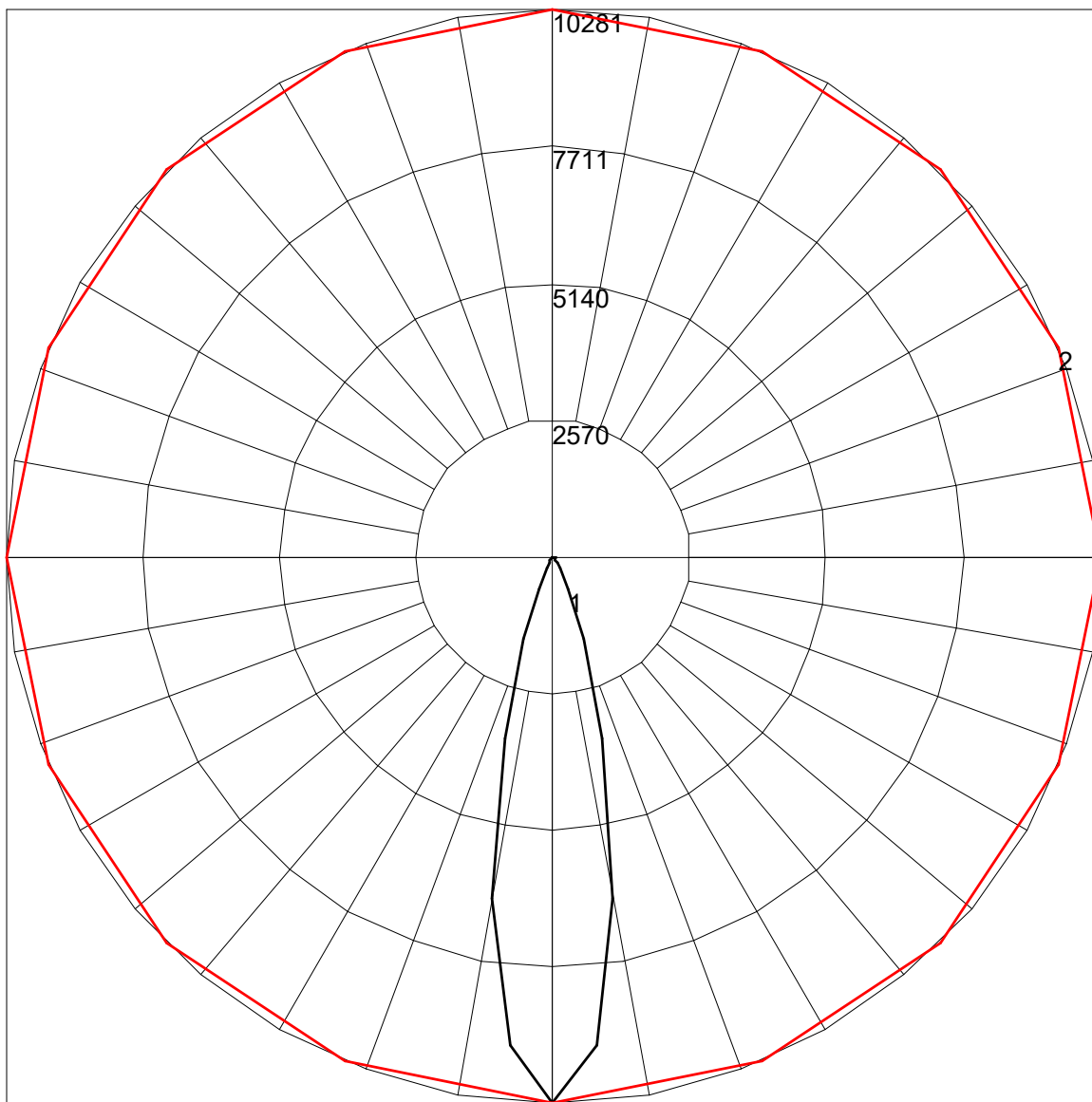
4H	2H	2.3	3.1	2.7	3.4	3.8	1.6	2.4	2.0	2.7	3.1
	3H	4.3	4.9	4.7	5.3	5.7	2.1	2.7	2.5	3.1	3.5
	4H	5.2	5.8	5.7	6.2	6.7	2.2	2.8	2.7	3.2	3.7
	6H	5.9	6.3	6.4	6.8	7.3	2.3	2.8	2.8	3.3	3.7
	8H	6.0	6.5	6.5	6.9	7.4	2.3	2.8	2.8	3.2	3.7
	12H	6.0	6.4	6.5	6.9	7.4	2.3	2.7	2.8	3.2	3.6

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 = 10280.727 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.)