



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-835-DIM-UNV-LN-OF-WH_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20404.0

[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 NARROW TIR OPTIC & 6"WHITE ASYM FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE #XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L30-835-DIM-UNV-LN-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	2609
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	31.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
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	4465	4677	5102
55	2752	2752	2883
65	2134	1956	2312
75	1452	1452	871
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	11273.181	11273.181	11273.181	11273.181	11273.181	11273.181	11273.181	11273.181	11273.181
5	10462.072	10398.940	10256.207	10186.212	10021.520	9788.206	9594.693	9442.353	9269.426
10	7570.351	7601.917	7471.536	7168.228	7033.729	6825.119	6449.072	6388.685	6284.380
15	4443.944	4409.634	4074.759	3859.287	3838.701	3722.044	3561.469	3282.864	3247.181
20	2110.805	2081.984	1974.934	1867.884	1825.339	1732.013	1642.805	1538.500	1465.761
25	934.628	946.980	861.889	842.675	817.971	794.640	712.294	665.631	597.009
30	407.613	406.241	389.772	362.323	355.461	347.226	322.522	301.936	273.115
35	183.906	182.534	179.789	175.672	177.044	179.789	164.692	155.085	144.106
40	98.815	97.443	96.070	97.443	102.933	107.050	97.443	93.326	86.463
45	57.642	59.015	60.387	61.760	65.877	65.877	65.877	63.132	61.760
50	35.683	37.056	38.428	42.545	45.290	46.663	45.290	43.918	45.290
55	28.821	28.821	28.821	30.194	30.194	31.566	32.938	30.194	31.566
60	21.959	19.214	20.587	21.959	23.331	26.076	23.331	21.959	21.959
65	16.469	16.469	15.097	16.469	17.842	17.842	16.469	16.469	15.097
70	12.352	12.352	12.352	9.607	12.352	10.979	9.607	12.352	10.979
75	6.862	5.490	6.862	5.490	4.117	5.490	5.490	4.117	5.490
80	4.117	2.745	2.745	2.745	1.372	0.000	0.000	1.372	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-L30-835-DIM-UNV-LN-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1964.34	N.A.	75.30
0-30	2383.88	N.A.	91.40
0-40	2506.39	N.A.	96.10
0-60	2585.41	N.A.	99.10
0-80	2608.21	N.A.	100.00
0-90	2608.65	N.A.	100.00
10-90	1749.46	N.A.	67.10
20-40	542.04	N.A.	20.80
20-50	593.06	N.A.	22.70
40-70	95.55	N.A.	3.70
60-80	22.80	N.A.	0.90
70-80	6.28	N.A.	0.20
80-90	0.44	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	2608.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	859.20
10-20	1105.15
20-30	419.54
30-40	122.50
40-50	51.01
50-60	28.01
60-70	16.53
70-80	6.28
80-90	0.44
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	327	327	327	327	319	319	319	319	305	305	305	292	292	292	280	280	280	275
1	315	309	303	298	309	303	298	294	292	288	285	282	279	276	273	270	268	264
2	304	293	285	277	298	289	281	274	280	274	268	272	267	263	265	261	257	253
3	293	280	269	261	288	276	266	259	269	261	255	263	256	251	257	252	247	243
4	283	268	256	247	279	265	254	246	259	250	243	254	247	240	249	243	238	234
5	274	257	245	236	270	255	244	235	250	241	233	246	238	231	242	235	229	226
6	266	248	235	227	262	246	234	226	242	232	224	238	230	223	235	228	222	219
7	258	239	227	218	255	237	226	218	234	224	217	231	222	216	229	221	215	212
8	250	231	219	211	247	230	218	210	227	217	210	225	215	209	222	214	208	205
9	243	224	212	204	241	223	211	204	220	210	203	218	209	202	216	208	202	199
10	236	217	205	198	234	216	205	198	214	204	197	212	203	197	211	202	196	194

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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

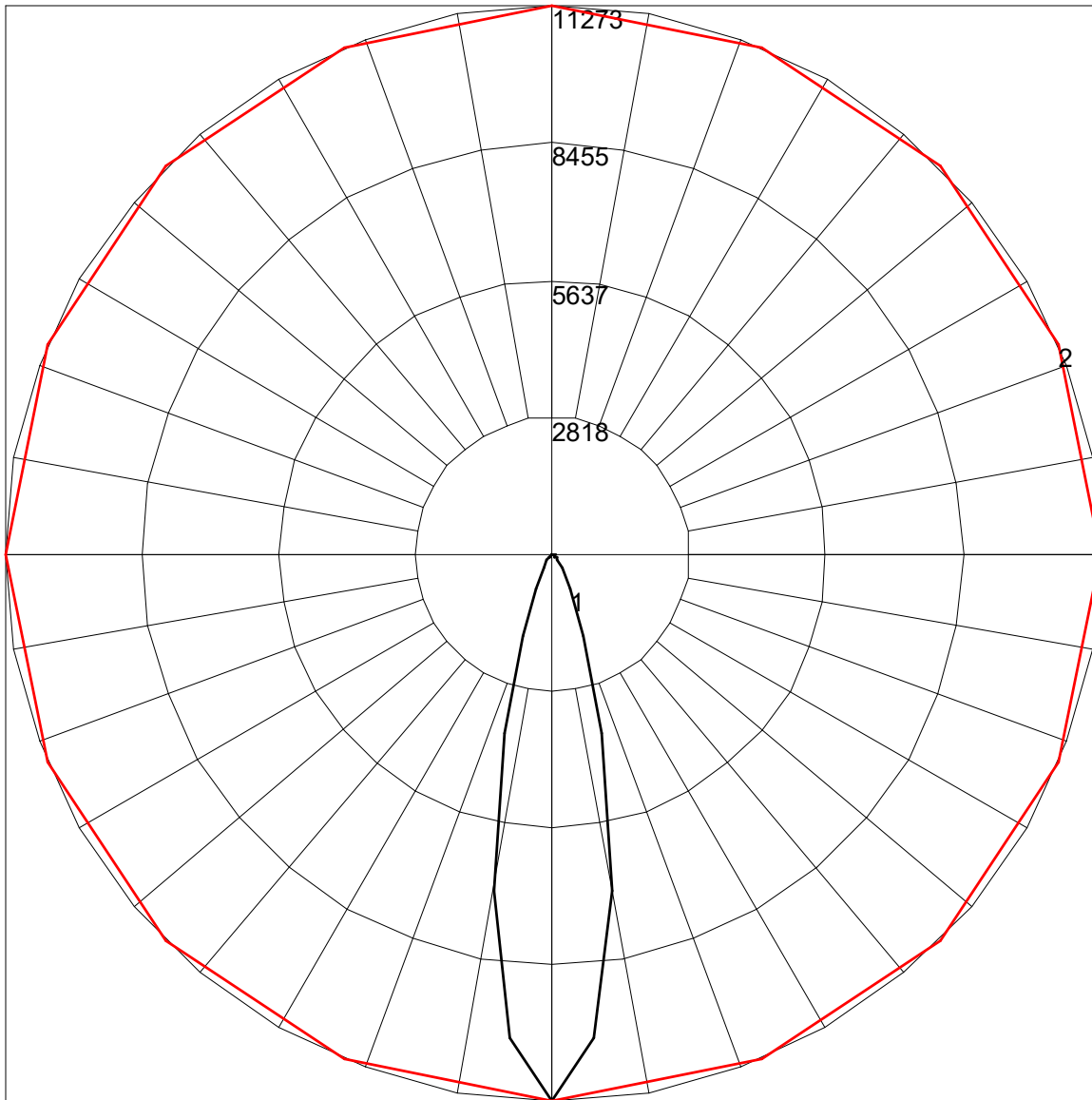
X=2H	Y=2H	1.8	2.7	2.2	3.0	3.3	2.6	3.6	3.0	3.9	4.2
	3H	3.2	4.1	3.6	4.4	4.8	3.7	4.5	4.1	4.9	5.3
	4H	3.6	4.3	4.0	4.7	5.1	3.9	4.6	4.3	5.0	5.4
	6H	3.7	4.4	4.2	4.8	5.2	3.8	4.5	4.2	4.9	5.3
	8H	3.8	4.4	4.2	4.8	5.2	3.8	4.4	4.2	4.8	5.2
	12H	3.7	4.3	4.1	4.7	5.1	3.7	4.3	4.1	4.7	5.1

UGR Viewed Endwise

4H	2H	2.1	2.8	2.5	3.2	3.6	2.9	3.6	3.3	4.0	4.4
	3H	3.8	4.4	4.2	4.8	5.2	4.1	4.7	4.5	5.1	5.5
	4H	4.1	4.6	4.5	5.1	5.5	4.3	4.8	4.7	5.2	5.7
	6H	4.3	4.8	4.8	5.3	5.7	4.3	4.7	4.7	5.2	5.7
	8H	4.4	4.8	4.8	5.2	5.7	4.2	4.6	4.7	5.1	5.6
	12H	4.3	4.7	4.8	5.2	5.6	4.1	4.5	4.6	5.0	5.5
8H	4H	4.1	4.6	4.6	5.0	5.5	4.3	4.7	4.7	5.2	5.6
	6H	4.4	4.8	4.9	5.3	5.8	4.3	4.6	4.8	5.1	5.6
	8H	4.5	4.8	5.0	5.3	5.8	4.2	4.5	4.8	5.1	5.6
	12H	4.4	4.7	4.9	5.2	5.8	4.2	4.4	4.7	4.9	5.5
12H	4H	4.1	4.5	4.6	5.0	5.4	4.2	4.6	4.7	5.1	5.6
	6H	4.4	4.7	4.9	5.2	5.7	4.2	4.5	4.8	5.0	5.6
	8H	4.4	4.7	5.0	5.2	5.8	4.2	4.5	4.7	5.0	5.5

Maximum UGR = 5.8

POLAR GRAPH



Maximum Candela = 11273.181 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.)