



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-930-DIM-UNV-AW-OF-CS 0 DEGREE TILT_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20434.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 21-JAN-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC WIDE TIR OPTIC & 6" CLEAR SEMI-SPEC ASYM TRIM w/ANGLED SOLITE LENS

[LUMCAT] 6AR-L30-930-DIM-UNV-AW-OF-CS 0 DEG TILT

[_SEARCH_SOURCE TYPE] 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	2047
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	31.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
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	5104	5825	8266
55	4993	5471	5676
65	5755	5198	3527
75	5153	3486	1061
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	2929.402	2929.402	2929.402	2929.402	2929.402	2929.402	2929.402	2929.402	2929.402
5	2864.940	2871.387	2880.698	2899.320	2924.388	2942.294	2953.754	2977.389	2994.579
10	2736.018	2753.208	2788.303	2826.264	2868.522	2894.306	2897.171	2901.468	2935.848
15	2455.254	2453.821	2520.431	2572.000	2683.017	2717.396	2666.543	2634.313	2642.908
20	1766.952	1906.618	1978.241	2064.190	2160.881	2204.572	2167.327	2127.934	2137.246
25	1083.664	1156.003	1214.735	1288.507	1410.983	1476.877	1533.459	1458.971	1507.675
30	559.380	586.597	627.422	653.923	722.681	802.900	881.685	880.969	841.576
35	275.751	280.764	299.386	309.414	363.131	402.524	448.363	456.958	418.998
40	121.760	126.774	138.950	156.855	193.383	227.047	249.966	261.426	237.790
45	65.894	69.475	75.205	90.962	106.719	133.220	141.098	141.815	131.071
50	57.299	58.015	63.029	70.907	78.786	77.353	83.800	86.664	84.516
55	52.285	54.434	57.299	62.312	59.448	58.731	55.866	55.866	57.299
60	50.136	50.136	50.136	53.001	45.123	38.677	35.812	34.379	35.812
65	44.407	42.974	40.109	37.244	27.217	22.203	18.622	14.325	14.325
70	36.528	33.663	29.366	24.352	15.757	10.744	5.730	6.446	5.730
75	24.352	22.203	16.473	12.176	5.014	2.149	2.149	2.865	3.581
80	11.460	10.744	5.730	2.865	0.716	0.000	0.000	2.149	2.149
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-L30-930-DIM-UNV-AW-OF-CS 0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	984.16	N.A.	48.10
0-30	1607.39	N.A.	78.50
0-40	1861.36	N.A.	90.90
0-60	2005.1	N.A.	98.00
0-80	2045.67	N.A.	100.00
0-90	2046.65	N.A.	100.00
10-90	1770.36	N.A.	86.50
20-40	877.20	N.A.	42.90
20-50	969.08	N.A.	47.30
40-70	173.44	N.A.	8.50
60-80	40.57	N.A.	2.00
70-80	10.87	N.A.	0.50
80-90	0.99	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	2046.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	276.30
10-20	707.86
20-30	623.23
30-40	253.97
40-50	91.88
50-60	51.86
60-70	29.70
70-80	10.87
80-90	0.99
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	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72
1	81	79	78	76	80	78	76	75	75	74	73	72	71	70	70	69	68	67
2	77	74	71	69	76	73	70	68	71	68	67	68	67	65	66	65	64	63
3	74	69	66	63	72	68	65	63	66	64	62	65	62	61	63	61	60	59
4	70	65	61	58	69	64	61	58	63	60	57	61	59	57	60	58	56	55
5	67	61	57	54	66	61	57	54	59	56	54	58	55	53	57	55	53	52
6	64	58	54	51	63	57	53	51	56	53	50	55	52	50	54	52	50	49
7	61	55	51	48	60	54	50	48	53	50	47	53	49	47	52	49	47	46
8	58	52	48	45	58	52	48	45	51	47	45	50	47	45	49	47	44	44
9	56	49	45	43	55	49	45	43	48	45	42	48	45	42	47	44	42	41
10	54	47	43	41	53	47	43	40	46	43	40	46	42	40	45	42	40	39

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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	12.6	13.6	12.9	13.9	14.2	UGR Viewed Endwise			
	3H	14.8	15.7	15.2	16.0	16.4	12.7	13.7	13.0	14.0
	4H	15.5	16.3	15.9	16.7	17.1	13.3	14.2	13.7	14.6
	6H	15.9	16.6	16.3	17.0	17.4	13.4	14.2	13.8	14.5
	8H	15.9	16.6	16.4	17.0	17.4	13.3	14.0	13.7	14.4
	12H	15.9	16.6	16.3	16.9	17.4	13.2	13.9	13.7	14.3

4H	2H	13.1	14.0	13.6	14.3	14.7	12.9	13.7	13.3	14.1
	3H	15.5	16.1	15.9	16.6	17.0	13.8	14.4	14.2	14.8
	4H	16.3	16.9	16.7	17.3	17.8	13.8	14.4	14.3	14.9
	6H	16.7	17.3	17.2	17.7	18.2	13.8	14.3	14.2	14.7
	8H	16.8	17.3	17.3	17.7	18.2	13.7	14.2	14.2	14.6
	12H	16.7	17.2	17.2	17.6	18.1	13.6	14.0	14.1	14.5

8H	4H	16.3	16.8	16.8	17.2	17.7	13.9	14.4	14.4	14.8
	6H	16.8	17.2	17.3	17.7	18.2	13.8	14.2	14.3	14.7
	8H	16.9	17.3	17.4	17.8	18.3	13.8	14.1	14.3	14.6
	12H	16.9	17.2	17.4	17.7	18.3	13.7	14.0	14.3	14.5

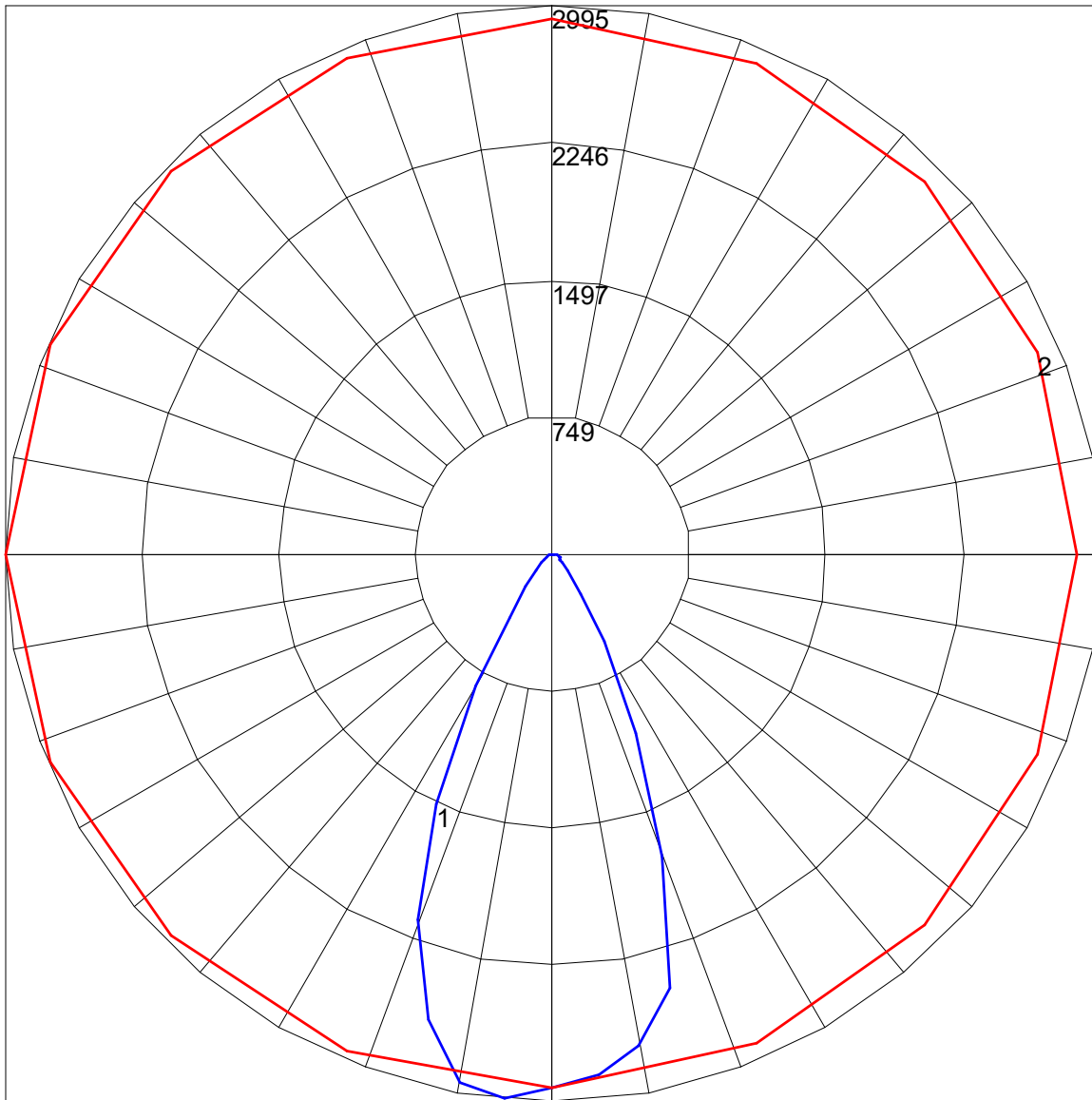
12H	4H	16.3	16.7	16.8	17.2	17.6	13.9	14.3	14.3	14.8
	6H	16.8	17.1	17.3	17.6	18.1	13.8	14.1	14.3	14.6
	8H	16.9	17.2	17.4	17.7	18.3	13.8	14.0	14.3	14.5

Maximum UGR = 18.3

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POLAR GRAPH



Maximum Candela = 2994.579 Located At Horizontal Angle = 180, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)