



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L10-835-DIM-UNV-LW-OF-CS 0 DEGREE TILT_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20425.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 18-OCT-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 6" TALL HEAT SINK 6" RND ADJ DOWNLIGHT @ 0 TILT
 [MORE] ACRYLIC WIDE TIR OPTIC & 6" WHITE ASYM FLUSH TRIM w/SOLITE LENS
 [LUMCAT] 6AR-L10-835-DIM-UNV-LW-OF-CS_0 DEG TILT
 [_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	904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	10.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.78
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	3202	3448	4064
55	2176	2353	2682
65	2061	2061	2129
75	1570	1458	1570
85	167	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	1154.340	1154.340	1154.340	1154.340	1154.340	1154.340	1154.340	1154.340	1154.340
5	1160.965	1164.675	1165.735	1165.735	1163.085	1158.845	1155.930	1150.630	1154.870
10	1134.995	1141.090	1143.210	1145.860	1144.270	1142.945	1140.295	1136.320	1136.055
15	1044.100	1046.750	1052.580	1053.905	1064.240	1059.205	1087.825	1089.150	1080.670
20	864.430	860.455	879.270	879.800	891.725	903.385	927.500	938.895	925.910
25	641.565	591.215	598.105	610.560	648.190	665.680	682.905	709.935	691.385
30	286.730	301.570	317.205	337.345	341.055	368.880	382.395	391.935	408.100
35	141.245	138.595	144.690	157.940	170.925	180.465	164.830	200.075	193.450
40	72.610	73.405	75.790	77.115	89.040	91.160	102.290	94.870	97.520
45	41.340	42.400	44.520	48.495	52.470	56.710	55.385	55.650	59.095
50	30.475	30.210	32.065	34.450	37.630	39.220	40.015	41.075	43.195
55	22.790	23.320	24.645	26.235	28.090	29.415	30.475	31.800	34.185
60	19.345	19.875	20.670	21.200	22.525	23.320	24.645	24.910	27.560
65	15.900	15.370	15.900	15.900	16.430	18.020	18.020	19.875	20.935
70	11.925	11.395	11.660	11.660	12.190	12.720	13.515	15.105	16.165
75	7.420	7.155	6.890	6.625	7.420	8.215	9.010	9.805	11.395
80	3.710	3.180	3.445	3.180	3.180	4.240	4.770	5.300	5.830
85	0.265	0.000	0.000	0.000	0.000	0.000	0.795	1.590	2.650
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-L10-835-DIM-UNV-LW-OF-CS 0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	402.50	N.A.	44.50
0-30	690.33	N.A.	76.40
0-40	808.03	N.A.	89.40
0-60	876.59	N.A.	97.00
0-80	902.56	N.A.	99.90
0-90	903.91	N.A.	100.00
10-90	793.91	N.A.	87.80
20-40	405.53	N.A.	44.90
20-50	448.48	N.A.	49.60
40-70	85.85	N.A.	9.50
60-80	25.96	N.A.	2.90
70-80	8.68	N.A.	1.00
80-90	1.35	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	903.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.00
10-20	292.50
20-30	287.83
30-40	117.70
40-50	42.95
50-60	25.62
60-70	17.28
70-80	8.68
80-90	1.35
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	88	88	88	88	86	86	86	86	82	82	82	78	78	78	75	75	75	74
1	83	81	79	78	82	80	78	77	77	75	74	74	73	72	71	71	70	69
2	79	76	73	70	78	74	72	69	72	70	68	70	68	66	68	66	65	64
3	75	71	67	64	74	69	66	63	68	65	62	66	63	61	64	62	60	59
4	72	66	62	59	70	65	61	58	64	60	58	62	59	57	61	58	56	55
5	68	62	58	55	67	61	57	54	60	57	54	59	56	53	58	55	53	52
6	65	58	54	51	64	58	54	51	57	53	50	56	53	50	55	52	50	49
7	62	55	51	48	61	55	51	48	54	50	47	53	50	47	52	49	47	46
8	59	52	48	45	58	52	48	45	51	47	45	50	47	44	50	47	44	43
9	56	50	45	42	56	49	45	42	49	45	42	48	45	42	47	44	42	41
10	54	47	43	40	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	9.2	10.2	9.5	10.5	10.8	10.2	11.2	10.6	11.6	11.9
	3H	10.8	11.7	11.1	12.0	12.4	11.6	12.5	11.9	12.8	13.2
	4H	11.3	12.1	11.7	12.5	12.9	12.0	12.8	12.4	13.2	13.6
	6H	11.5	12.3	11.9	12.7	13.1	12.1	12.9	12.5	13.3	13.7
	8H	11.5	12.3	12.0	12.7	13.1	12.1	12.9	12.6	13.3	13.7
	12H	11.5	12.2	11.9	12.6	13.0	12.1	12.8	12.5	13.2	13.6

UGR Viewed Endwise

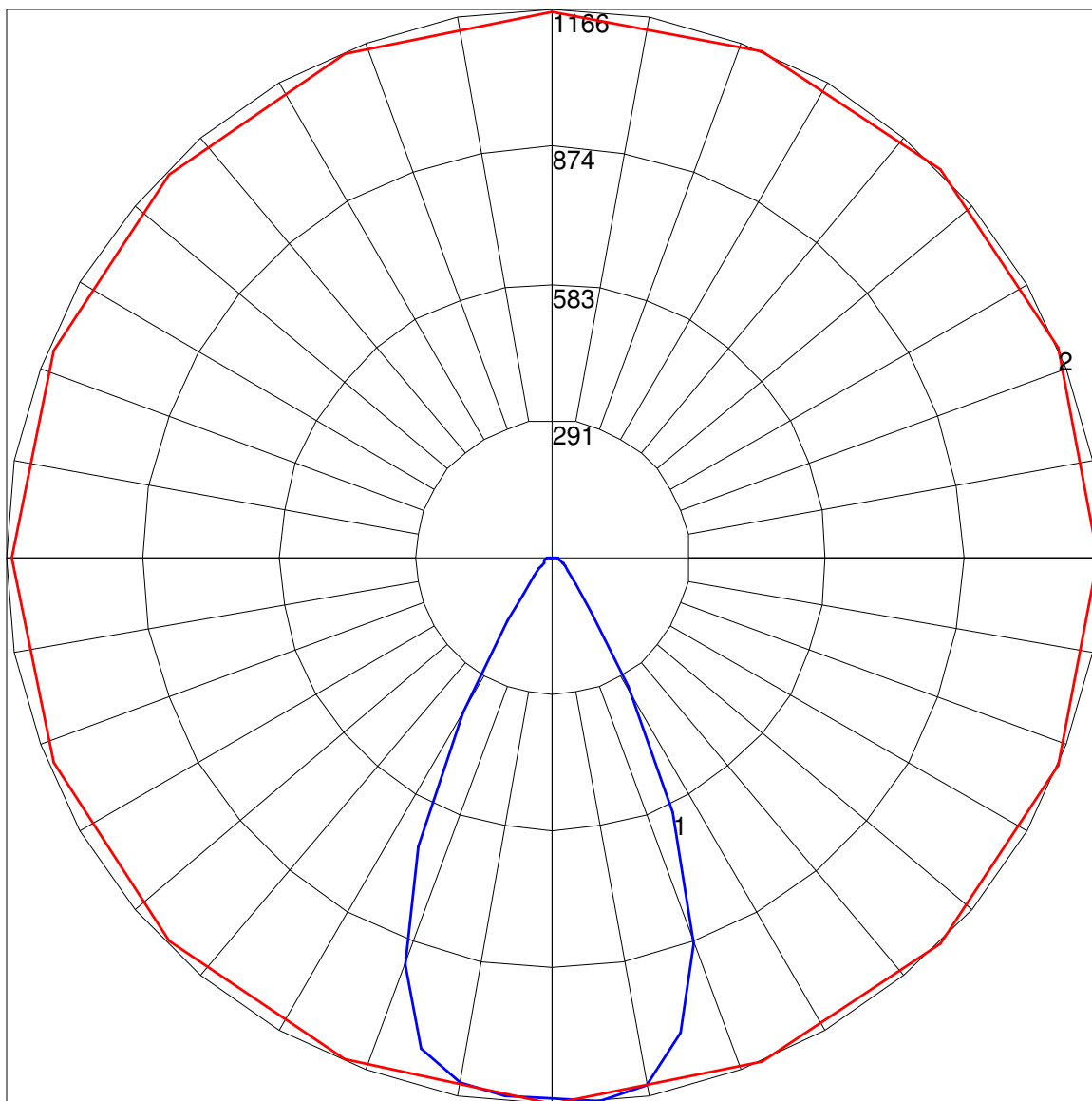
4H	2H	9.7	10.5	10.1	10.9	11.3	10.6	11.5	11.0	11.8	12.2
	3H	11.5	12.1	11.9	12.6	13.0	12.2	12.9	12.6	13.3	13.7
	4H	12.0	12.6	12.4	13.1	13.5	12.6	13.3	13.1	13.7	14.1
	6H	12.3	12.9	12.8	13.3	13.8	12.9	13.4	13.4	13.9	14.4
	8H	12.4	12.9	12.8	13.3	13.8	12.9	13.4	13.4	13.9	14.3
	12H	12.3	12.8	12.8	13.2	13.7	12.9	13.3	13.3	13.8	14.3
8H	4H	12.1	12.6	12.6	13.1	13.6	12.8	13.3	13.3	13.8	14.2
	6H	12.5	12.9	13.0	13.4	13.9	13.2	13.5	13.7	14.0	14.5
	8H	12.6	12.9	13.1	13.4	13.9	13.2	13.5	13.7	14.0	14.5
	12H	12.5	12.8	13.1	13.3	13.9	13.1	13.4	13.7	13.9	14.5
12H	4H	12.1	12.5	12.6	13.0	13.5	12.8	13.2	13.3	13.7	14.2
	6H	12.5	12.8	13.0	13.3	13.9	13.1	13.5	13.7	14.0	14.5
	8H	12.6	12.9	13.1	13.4	13.9	13.2	13.5	13.7	14.0	14.6

Maximum UGR = 14.6

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POLAR GRAPH



Maximum Candela = 1165.735 Located At Horizontal Angle = 45, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)

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