



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L15-835-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] LED 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-L15-835-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	1358
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	15.1
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	4809	5179	6104
55	3268	3534	4028
65	3095	3095	3198
75	2358	2190	2358
85	250	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	1733.688	1733.688	1733.688	1733.688	1733.688	1733.688	1733.688	1733.688	1733.688
5	1743.638	1749.210	1750.802	1750.802	1746.822	1740.454	1736.076	1728.116	1734.484
10	1704.634	1713.788	1716.972	1720.952	1718.564	1716.574	1712.594	1706.624	1706.226
15	1568.120	1572.100	1580.856	1582.846	1598.368	1590.806	1633.790	1635.780	1623.044
20	1298.276	1292.306	1320.564	1321.360	1339.270	1356.782	1393.000	1410.114	1390.612
25	963.558	887.938	898.286	916.992	973.508	999.776	1025.646	1066.242	1038.382
30	430.636	452.924	476.406	506.654	512.226	554.016	574.314	588.642	612.920
35	212.134	208.154	217.308	237.208	256.710	271.038	247.556	300.490	290.540
40	109.052	110.246	113.828	115.818	133.728	136.912	153.628	142.484	146.464
45	62.088	63.680	66.864	72.834	78.804	85.172	83.182	83.580	88.754
50	45.770	45.372	48.158	51.740	56.516	58.904	60.098	61.690	64.874
55	34.228	35.024	37.014	39.402	42.188	44.178	45.770	47.760	51.342
60	29.054	29.850	31.044	31.840	33.830	35.024	37.014	37.412	41.392
65	23.880	23.084	23.880	23.880	24.676	27.064	27.064	29.850	31.442
70	17.910	17.114	17.512	17.512	18.308	19.104	20.298	22.686	24.278
75	11.144	10.746	10.348	9.950	11.144	12.338	13.532	14.726	17.114
80	5.572	4.776	5.174	4.776	4.776	6.368	7.164	7.960	8.756
85	0.398	0.000	0.000	0.000	0.000	0.000	1.194	2.388	3.980
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-L15-835-DIM-UNV-LW-OF-CS 0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	604.51	N.A.	44.50
0-30	1036.8	N.A.	76.40
0-40	1213.57	N.A.	89.40
0-60	1316.54	N.A.	97.00
0-80	1355.54	N.A.	99.90
0-90	1357.57	N.A.	100.00
10-90	1192.36	N.A.	87.80
20-40	609.06	N.A.	44.90
20-50	673.56	N.A.	49.60
40-70	128.93	N.A.	9.50
60-80	38.99	N.A.	2.90
70-80	13.04	N.A.	1.00
80-90	2.03	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	1357.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.21
10-20	439.30
20-30	432.29
30-40	176.77
40-50	64.50
50-60	38.47
60-70	25.96
70-80	13.04
80-90	2.03
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	132	132	132	132	129	129	129	129	123	123	123	118	118	118	113	113	113	111
1	125	122	119	117	123	120	117	115	115	113	111	111	110	108	107	106	105	103
2	119	114	109	105	117	112	107	104	108	105	102	105	102	100	102	99	97	96
3	113	106	100	96	111	104	99	95	101	97	94	99	95	92	96	93	91	89
4	107	99	93	88	106	98	92	88	96	91	87	93	89	86	91	88	85	83
5	102	93	87	82	101	92	86	82	90	85	81	88	84	80	87	83	79	78
6	97	88	81	77	96	87	81	76	85	80	76	84	79	75	82	78	75	73
7	93	83	76	72	91	82	76	72	81	75	71	79	74	71	78	74	70	69
8	89	78	72	68	87	78	72	67	77	71	67	75	70	67	74	70	67	65
9	85	74	68	64	84	74	68	64	73	67	63	72	67	63	71	66	63	62
10	81	71	65	60	80	70	64	60	69	64	60	69	64	60	68	63	60	58

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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

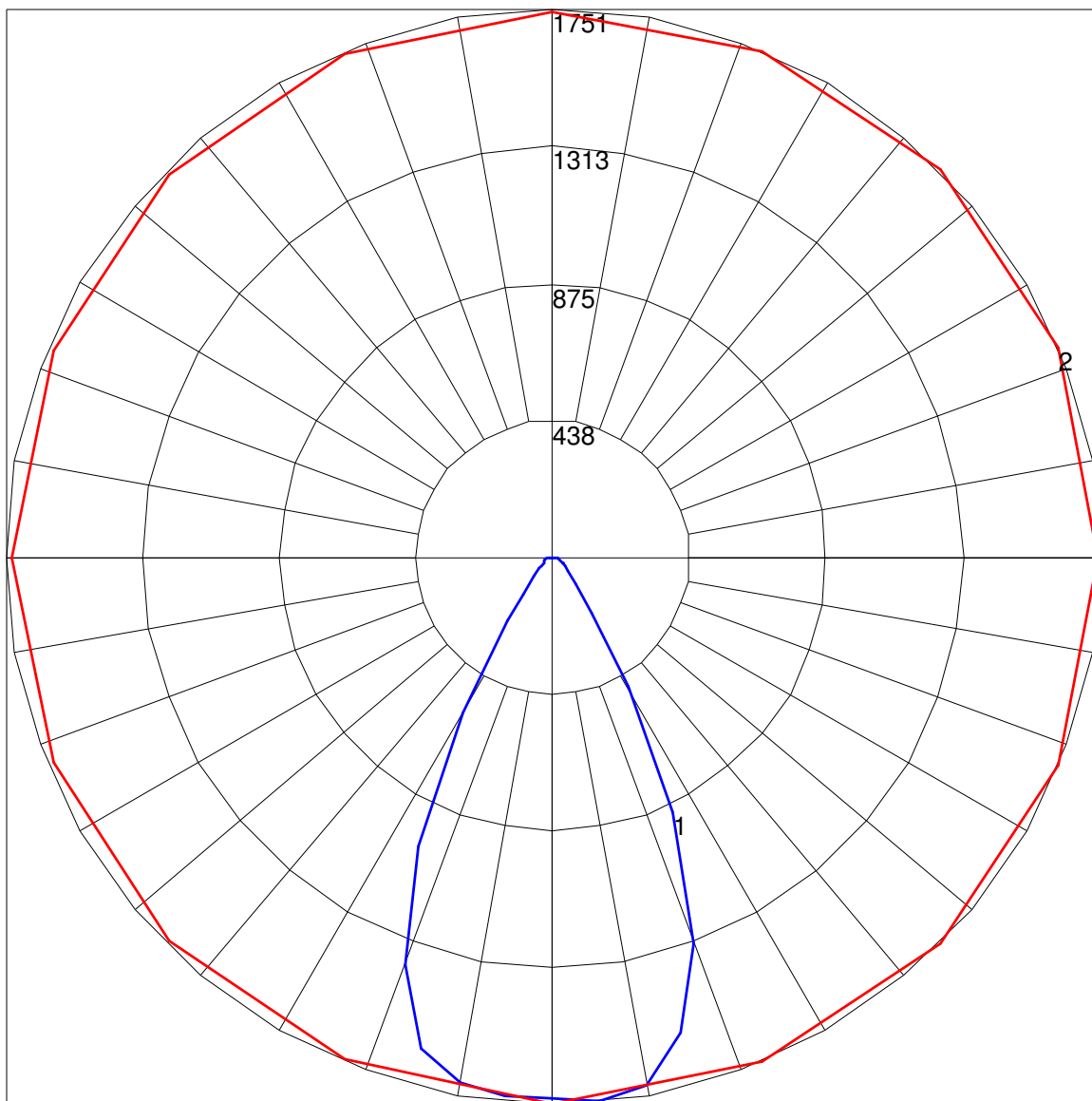
4H	2H	9.7	10.5	10.1	10.9	11.3	10.6	11.5	11.0	11.8	12.2
	3H	11.5	12.1	11.9	12.6	13.0	12.2	12.9	12.6	13.3	13.7
	4H	12.0	12.6	12.4	13.1	13.5	12.6	13.3	13.1	13.7	14.1
	6H	12.3	12.9	12.8	13.3	13.8	12.9	13.4	13.4	13.9	14.4
	8H	12.4	12.9	12.8	13.3	13.8	12.9	13.4	13.4	13.9	14.3
	12H	12.3	12.8	12.8	13.2	13.7	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 = 1750.802 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.)