



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-835-DIM-UNV-LW-OF-WH\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]BALLABS TEST NO. 20398.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 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 WIDE TIR OPTIC & 6"WHITE ASYM FLUSH TRIM

[MORE] w/SOLITE LENS ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L30-835-DIM-UNV-LW-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	2559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	31.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
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	9407	9739	11067
55	6139	6412	7504
65	5370	5370	5925
75	4233	4233	4535
85	1796	0	898

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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>
<b>0</b>	3240.543	3240.543	3240.543	3240.543	3240.543	3240.543	3240.543	3240.543	3240.543
<b>5</b>	3356.277	3321.985	3301.982	3274.835	3240.543	3231.970	3230.542	3234.828	3243.401
<b>10</b>	3370.565	3329.130	3303.411	3273.406	3223.398	3219.111	3223.398	3219.111	3219.111
<b>15</b>	3190.535	3173.389	3141.955	3109.093	3091.947	3024.793	3014.791	3006.218	2976.213
<b>20</b>	2703.310	2661.875	2676.163	2636.156	2614.724	2599.007	2547.570	2460.412	2440.409
<b>25</b>	1847.453	1903.176	1888.888	1877.458	1880.315	1754.580	1783.156	1711.716	1655.992
<b>30</b>	1001.596	975.878	1018.742	1018.742	981.593	1043.032	951.588	943.015	875.861
<b>35</b>	447.218	464.364	468.650	472.936	468.650	494.369	478.652	425.786	451.504
<b>40</b>	231.467	217.179	218.608	228.610	238.611	247.184	255.757	245.755	214.322
<b>45</b>	121.449	124.307	125.735	132.879	142.881	157.169	155.740	154.312	134.308
<b>50</b>	84.300	84.300	85.729	92.873	104.303	107.161	108.590	104.303	100.017
<b>55</b>	64.296	62.868	67.154	72.869	78.585	82.871	82.871	78.585	78.585
<b>60</b>	50.008	51.437	55.724	57.152	60.010	61.439	64.296	58.581	62.868
<b>65</b>	41.436	38.578	41.436	41.436	45.722	45.722	44.293	45.722	45.722
<b>70</b>	30.005	32.863	32.863	34.291	32.863	34.291	35.720	32.863	34.291
<b>75</b>	20.003	20.003	20.003	21.432	21.432	21.432	20.003	20.003	20.003
<b>80</b>	12.859	11.430	8.573	14.288	11.430	8.573	11.430	8.573	8.573
<b>85</b>	2.858	4.286	0.000	2.858	1.429	2.858	1.429	0.000	0.000
<b>90</b>	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-LW-OF-WH\_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1155.32	N.A.	45.10
0-30	1973.05	N.A.	77.10
0-40	2303.2	N.A.	90.00
0-60	2488.64	N.A.	97.20
0-80	2555.21	N.A.	99.80
0-90	2559.07	N.A.	100.00
10-90	2247.76	N.A.	87.80
20-40	1147.88	N.A.	44.90
20-50	1265.21	N.A.	49.40
40-70	229.55	N.A.	9.00
60-80	66.57	N.A.	2.60
70-80	22.46	N.A.	0.90
80-90	3.86	N.A.	0.20
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	2559.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	311.32
10-20	844.01
20-30	817.73
30-40	330.15
40-50	117.33
50-60	68.11
60-70	44.11
70-80	22.46
80-90	3.86
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	170	170	170	170	166	166	166	166	159	159	159	152	152	152	146	146	146	143
1	162	158	154	151	158	155	152	149	149	146	144	144	142	140	139	137	136	133
2	154	147	141	136	151	144	139	135	140	136	132	136	132	129	132	129	126	124
3	146	137	130	124	144	135	129	123	131	126	121	128	123	120	125	121	118	115
4	139	129	121	115	137	127	120	114	124	118	113	121	116	111	118	114	110	108
5	133	121	113	107	130	119	112	106	117	110	105	115	109	104	112	107	103	101
6	126	114	105	100	124	113	105	99	111	104	98	109	102	98	107	101	97	95
7	120	108	99	93	119	107	99	93	105	98	93	103	97	92	102	96	92	90
8	115	102	94	88	113	101	93	88	100	92	87	98	92	87	97	91	87	85
9	110	97	89	83	108	96	88	83	95	88	83	93	87	82	92	86	82	80
10	105	92	84	79	104	91	84	78	90	83	78	89	83	78	88	82	78	76

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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	10.0	11.0	10.4	11.3	11.7	11.3	12.3	11.6	12.6	12.9
	3H	11.6	12.5	12.0	12.9	13.2	12.6	13.5	13.0	13.9	14.2
	4H	12.1	13.0	12.5	13.3	13.7	13.1	13.9	13.5	14.3	14.6
	6H	12.5	13.3	13.0	13.7	14.1	13.3	14.1	13.7	14.5	14.9
	8H	12.6	13.3	13.1	13.7	14.1	13.4	14.1	13.8	14.5	14.9
	12H	12.6	13.3	13.1	13.7	14.1	13.3	14.0	13.8	14.4	14.8

### UGR Viewed Endwise

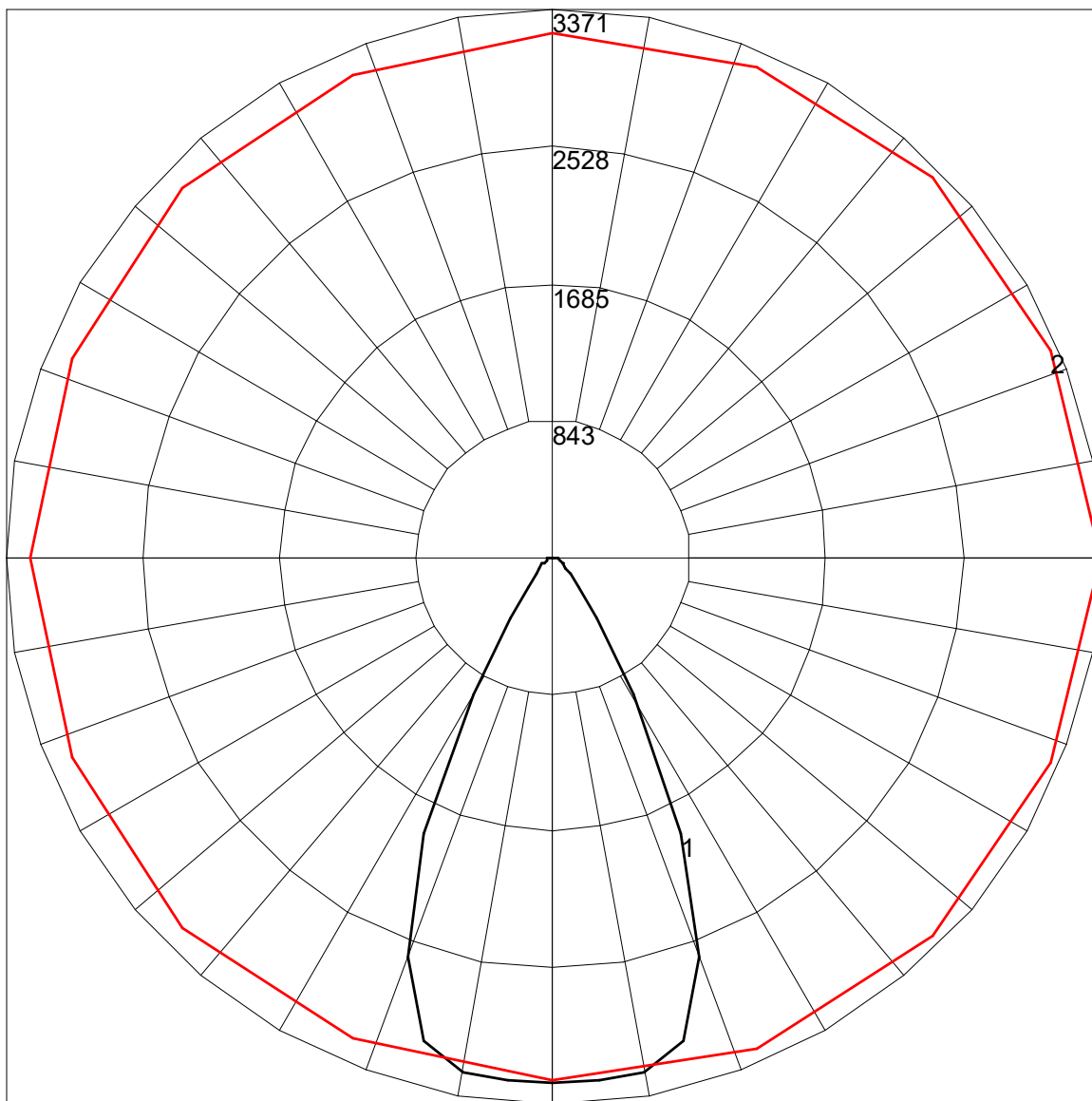
4H	2H	10.5	11.3	10.9	11.7	12.1	11.6	12.4	12.0	12.8	13.2
	3H	12.4	13.0	12.8	13.5	13.9	13.2	13.9	13.6	14.3	14.7
	4H	13.0	13.6	13.4	14.0	14.5	13.7	14.3	14.2	14.8	15.2
	6H	13.5	14.0	13.9	14.4	14.9	14.1	14.6	14.6	15.1	15.5
	8H	13.6	14.1	14.1	14.5	15.0	14.2	14.6	14.6	15.1	15.6
	12H	13.6	14.0	14.1	14.5	15.0	14.1	14.5	14.6	15.0	15.5

8H	4H	13.1	13.6	13.6	14.1	14.5	13.8	14.3	14.3	14.8	15.3
	6H	13.7	14.1	14.2	14.6	15.1	14.3	14.7	14.8	15.2	15.7
	8H	13.9	14.2	14.4	14.7	15.2	14.4	14.7	14.9	15.2	15.7
	12H	13.9	14.3	14.5	14.8	15.3	14.4	14.7	14.9	15.2	15.8

12H	4H	13.1	13.5	13.6	14.0	14.5	13.8	14.2	14.3	14.7	15.2
	6H	13.7	14.0	14.2	14.5	15.0	14.3	14.6	14.8	15.1	15.6
	8H	13.9	14.2	14.4	14.7	15.3	14.4	14.7	14.9	15.2	15.8

Maximum UGR = 15.8

POLAR GRAPH



Maximum Candela = 3370.565 Located At Horizontal Angle = 0, Vertical Angle = 10

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)

# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)