



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L12-8TW-DIM-UNV-AN-OF-WH\_25 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20414.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-MAY-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 25 TILT

[MORE] ACRYLIC NARROW TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED

[MORE] SOLITE LENS ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L12-8TW-DIM-UNV-AN-OF-WH\_25 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	1130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	14.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.28
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	1.04
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	81618	6728	1244
55	14715	1534	625
65	1696	386	154
75	378	0	0
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>
<b>0</b>	352.240	352.240	352.240	352.240	352.240	352.240	352.240	352.240	352.240
<b>5</b>	877.625	812.770	642.600	453.390	306.425	213.010	157.675	138.635	132.090
<b>10</b>	1865.920	1524.985	896.665	456.960	226.100	126.140	88.060	75.565	70.805
<b>15</b>	3258.815	2464.490	1081.115	387.940	149.940	76.755	54.145	47.600	47.005
<b>20</b>	4585.665	3170.755	1069.810	287.385	94.010	51.170	37.485	35.105	34.510
<b>25</b>	5109.265	3305.820	881.195	190.995	62.475	37.485	30.345	27.965	27.965
<b>30</b>	4751.670	2773.890	598.570	115.430	42.245	28.560	23.800	22.015	22.015
<b>35</b>	3603.320	1866.515	357.000	70.210	30.345	22.610	19.635	17.850	18.445
<b>40</b>	2134.265	1057.910	191.590	42.245	22.610	18.445	14.875	13.090	13.685
<b>45</b>	1053.745	511.700	86.870	26.775	16.065	12.495	9.520	9.520	10.710
<b>50</b>	431.970	205.870	37.485	14.875	10.710	8.330	7.140	6.545	6.545
<b>55</b>	154.105	70.210	16.065	8.925	6.545	5.950	5.355	5.950	6.545
<b>60</b>	48.790	21.420	7.140	4.760	4.165	2.975	2.380	2.975	4.165
<b>65</b>	13.090	6.545	2.975	1.785	1.190	1.190	0.595	1.785	1.785
<b>70</b>	5.355	2.975	1.785	0.595	0.000	0.000	0.000	0.000	1.785
<b>75</b>	1.785	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	1.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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

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Zone	Lumens	%Lamp	%Fixt
0-20	252.82	N.A.	22.40
0-30	645.63	N.A.	57.10
0-40	971.40	N.A.	85.90
0-60	1126.11	N.A.	99.60
0-80	1130.41	N.A.	100.00
0-90	1130.43	N.A.	100.00
10-90	1087.45	N.A.	96.20
20-40	718.59	N.A.	63.60
20-50	846.16	N.A.	74.90
40-70	158.64	N.A.	14.00
60-80	4.31	N.A.	0.40
70-80	0.37	N.A.	0.00
80-90	0.02	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	1130.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

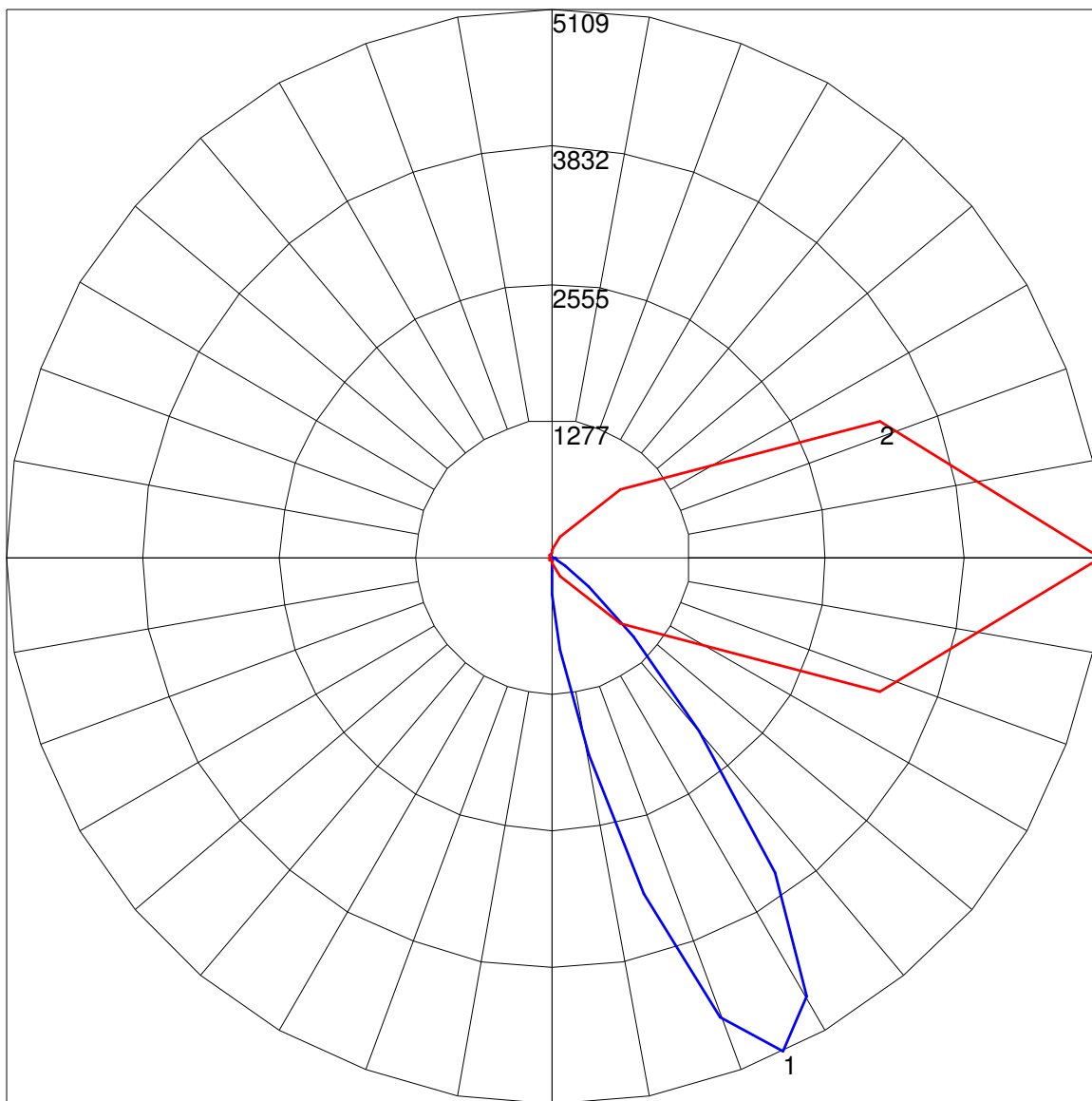
Zone	Lumens
0-10	42.99
10-20	209.83
20-30	392.82
30-40	325.77
40-50	127.57
50-60	27.13
60-70	3.94
70-80	0.37
80-90	0.02
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	59
1	67	65	64	62	66	64	63	61	62	60	59	59	58	58	57	57	56	55
2	63	60	57	55	62	59	57	55	57	55	53	55	54	52	54	52	51	50
3	60	55	52	49	58	54	51	49	53	50	48	51	49	47	50	48	47	46
4	56	51	47	44	55	50	47	44	49	46	44	48	45	43	47	44	43	42
5	53	47	43	40	52	46	43	40	45	42	40	44	41	39	43	41	39	38
6	49	43	39	37	49	43	39	36	42	39	36	41	38	36	40	38	36	35
7	46	40	36	33	46	40	36	33	39	36	33	38	35	33	38	35	33	32
8	44	37	33	31	43	37	33	30	36	33	30	36	33	30	35	32	30	29
9	41	35	31	28	40	34	31	28	34	30	28	33	30	28	33	30	28	27
10	39	32	28	26	38	32	28	26	32	28	26	31	28	26	31	28	26	25

POLAR GRAPH



Maximum Candela = 5109.265 Located At Horizontal Angle = 0, Vertical Angle = 25

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

# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)