

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P27-835-DIM-POE-AM-OF-WH\_25 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20411.0

[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] TILT ACRYLIC MED TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED

[MORE] SOLITE LENS ADVANCE #XI025C070V054DSM5 @530mA

[LUMCAT] 6AR-P27-835-DIM-PoE-AM-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	2312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.08
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	1.02
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	136528	19906	3318
55	16608	3470	2107
65	2355	1177	1177
75	1373	275	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>	1065.658	1065.658	1065.658	1065.658	1065.658	1065.658	1065.658	1065.658	1065.658
<b>5</b>	2383.128	2219.580	1797.730	1343.430	961.818	704.814	572.418	484.154	460.790
<b>10</b>	4359.982	3760.306	2475.286	1377.178	755.436	456.896	316.712	259.600	250.514
<b>15</b>	6146.030	5272.476	2934.778	1200.650	526.988	282.964	198.594	160.952	150.568
<b>20</b>	7127.318	6031.806	2904.924	922.878	349.162	181.720	125.906	109.032	99.946
<b>25</b>	7368.746	6039.594	2358.466	629.530	227.150	125.906	89.562	75.284	72.688
<b>30</b>	6932.618	5293.244	1664.036	389.400	146.674	84.370	62.304	54.516	54.516
<b>35</b>	5834.510	3858.954	992.970	227.150	96.052	61.006	46.728	45.430	46.728
<b>40</b>	3953.708	2297.460	533.478	134.992	64.900	45.430	38.940	38.940	40.238
<b>45</b>	1762.684	1074.744	257.004	73.986	42.834	36.344	32.450	37.642	38.940
<b>50</b>	689.238	358.248	93.456	38.940	28.556	27.258	27.258	29.854	32.450
<b>55</b>	173.932	93.456	36.344	23.364	22.066	23.364	23.364	25.960	27.258
<b>60</b>	45.430	27.258	18.172	15.576	15.576	15.576	16.874	19.470	22.066
<b>65</b>	18.172	14.278	9.086	9.086	9.086	10.384	12.980	14.278	15.576
<b>70</b>	9.086	7.788	6.490	3.894	3.894	3.894	3.894	6.490	7.788
<b>75</b>	6.490	3.894	1.298	0.000	0.000	0.000	1.298	2.596	3.894
<b>80</b>	2.596	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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6AR-P27-835-DIM-POE-AM-OF-WH\_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	598.46	N.A.	25.90
0-30	1345.9	N.A.	58.20
0-40	1983.93	N.A.	85.80
0-60	2296.82	N.A.	99.40
0-80	2311.58	N.A.	100.00
0-90	2311.62	N.A.	100.00
10-90	2189.82	N.A.	94.70
20-40	1385.47	N.A.	59.90
20-50	1647.91	N.A.	71.30
40-70	325.20	N.A.	14.10
60-80	14.76	N.A.	0.60
70-80	2.45	N.A.	0.10
80-90	0.04	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	2311.62	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	121.80
10-20	476.66
20-30	747.44
30-40	638.03
40-50	262.45
50-60	50.44
60-70	12.31
70-80	2.45
80-90	0.04
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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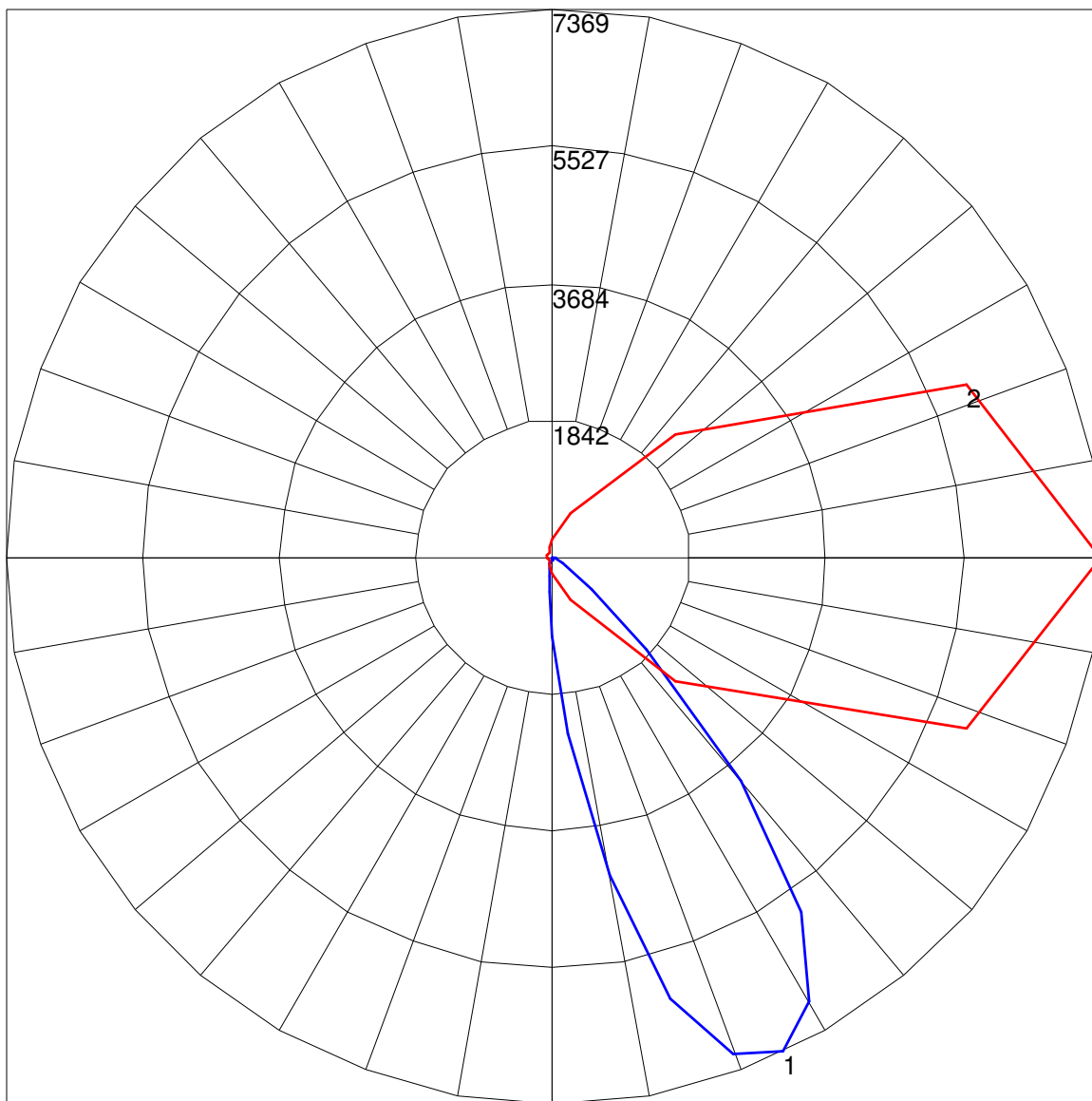
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	155	155	155	155	151	151	151	151	144	144	144	138	138	138	132	132	132	130
1	147	143	139	136	143	140	137	134	135	132	130	130	128	126	125	124	122	120
2	138	131	126	121	135	129	124	119	125	121	117	121	117	114	117	114	112	110
3	130	121	114	108	128	119	113	107	116	110	106	113	108	104	110	106	102	100
4	123	112	104	98	120	110	103	97	107	101	96	105	99	95	102	98	94	92
5	115	103	95	89	113	102	94	88	100	93	88	97	91	87	95	90	86	84
6	109	96	87	81	107	95	87	81	93	86	80	91	84	80	89	83	79	77
7	102	89	80	74	101	88	80	74	86	79	74	85	78	73	83	77	73	71
8	97	83	74	68	95	82	74	68	81	73	68	79	72	67	78	72	67	65
9	91	77	69	63	90	77	68	63	75	68	63	74	67	62	73	67	62	60
10	86	72	64	58	85	72	64	58	70	63	58	69	63	58	68	62	58	56

POLAR GRAPH



Maximum Candela = 7368.746 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.)