

## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20396.0

[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"OPEN ASYM SEMI-SPEC TRIM

[MORE] ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-P27-835-DIM-PoE-ON-OF-CS\_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	2811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.20
Spacing Criterion (90-270)	0.44
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	146180	9249	1609
55	9296	372	0
65	0	0	0
75	0	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>	706.112	706.112	706.112	706.112	706.112	706.112	706.112	706.112	706.112
<b>5</b>	1945.702	1732.830	1346.026	909.898	615.252	440.022	333.586	293.348	277.772
<b>10</b>	4401.518	3498.110	1895.080	920.282	462.088	280.368	225.852	205.084	201.190
<b>15</b>	10046.520	6439.378	2248.136	743.754	285.560	168.740	145.376	129.800	132.396
<b>20</b>	13695.198	9226.184	2310.440	542.564	180.422	119.416	101.244	92.158	97.350
<b>25</b>	15076.270	9614.286	1854.842	345.268	122.012	85.668	76.582	70.092	71.390
<b>30</b>	14401.310	7654.306	1200.650	199.892	86.966	62.304	55.814	59.708	62.304
<b>35</b>	10966.802	4330.128	646.404	120.714	63.602	46.728	49.324	50.622	55.814
<b>40</b>	5733.266	1908.060	297.242	76.582	40.238	31.152	33.748	36.344	36.344
<b>45</b>	1887.292	807.356	119.416	29.854	20.768	20.768	3.894	0.000	0.000
<b>50</b>	485.452	172.634	29.854	11.682	12.980	0.000	0.000	0.000	0.000
<b>55</b>	97.350	28.556	3.894	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	11.682	2.596	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	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-ON-OF-CS\_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	636.00	N.A.	22.60
0-30	1724.2	N.A.	61.30
0-40	2564.34	N.A.	91.20
0-60	2810.8	N.A.	100.00
0-80	2811.06	N.A.	100.00
0-90	2811.06	N.A.	100.00
10-90	2718.38	N.A.	96.70
20-40	1928.34	N.A.	68.60
20-50	2157.24	N.A.	76.70
40-70	246.72	N.A.	8.80
60-80	0.26	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	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	2811.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.68
10-20	543.32
20-30	1088.2
30-40	840.14
40-50	228.90
50-60	17.56
60-70	0.26
70-80	0.00
80-90	0.00
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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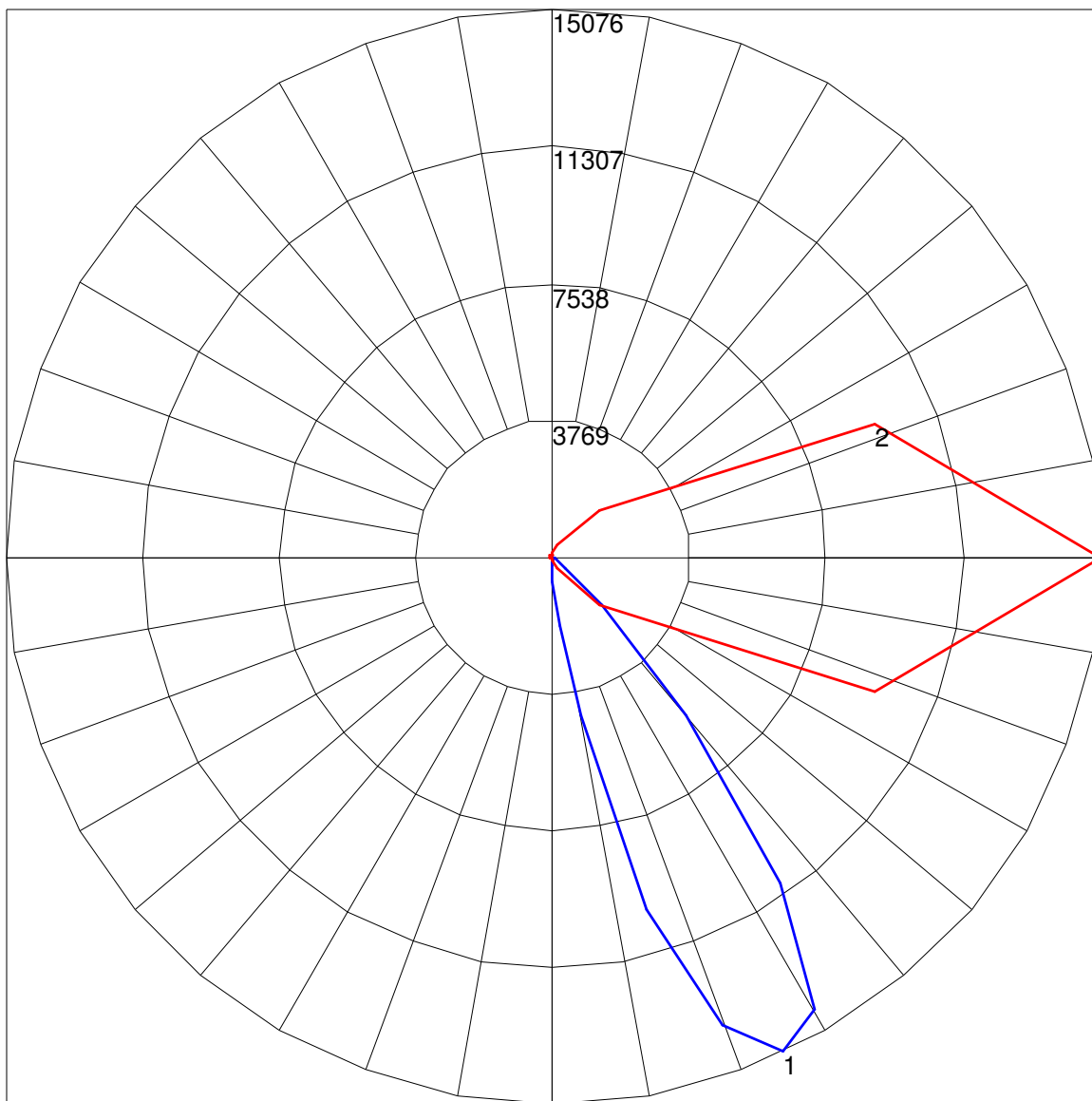
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	144	140	137	134	135	132	130	130	128	126	126	124	123	120
2	139	132	126	122	136	130	125	120	125	121	118	122	118	115	118	115	113	110
3	131	122	115	109	128	120	114	108	117	111	107	113	109	105	110	107	103	101
4	123	113	105	99	121	111	104	98	108	102	97	106	100	96	103	99	95	93
5	116	104	96	90	114	103	95	89	101	94	89	98	92	88	96	91	87	85
6	109	97	88	82	107	96	88	82	94	86	81	92	85	81	90	84	80	78
7	103	90	81	75	101	89	81	75	87	80	74	85	79	74	84	78	74	72
8	97	83	75	69	95	83	74	69	81	74	68	80	73	68	78	72	68	66
9	91	78	69	63	90	77	69	63	76	68	63	74	68	63	73	67	63	61
10	86	72	64	59	85	72	64	58	71	63	58	70	63	58	69	62	58	56

POLAR GRAPH



Maximum Candela = 15076.27 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.)