

## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20393.0

[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 MED TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[MORE] ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-P27-835-DIM-PoE-OM-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	2511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.00
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.96
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	121914	14454	498
55	4424	0	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>	1127.412	1127.412	1127.412	1127.412	1127.412	1127.412	1127.412	1127.412	1127.412
<b>5</b>	2734.875	2516.085	1876.446	1326.897	953.667	707.850	561.132	527.670	456.885
<b>10</b>	6019.299	4886.739	2624.193	1231.659	684.684	440.154	329.472	270.270	266.409
<b>15</b>	7954.947	6740.019	3078.504	1016.730	476.190	276.705	202.059	173.745	171.171
<b>20</b>	8177.598	7404.111	2974.257	791.505	316.602	180.180	136.422	118.404	109.395
<b>25</b>	8069.490	7392.528	2280.564	528.957	199.485	119.691	84.942	69.498	68.211
<b>30</b>	7909.902	6689.826	1514.799	339.768	124.839	69.498	48.906	39.897	38.610
<b>35</b>	7401.537	5180.175	832.689	202.059	75.933	39.897	16.731	12.870	10.296
<b>40</b>	5435.001	2262.546	433.719	111.969	36.036	9.009	2.574	0.000	0.000
<b>45</b>	1574.001	750.321	186.615	38.610	6.435	0.000	0.000	0.000	0.000
<b>50</b>	440.154	172.458	27.027	3.861	0.000	0.000	0.000	0.000	0.000
<b>55</b>	46.332	21.879	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	6.435	0.000	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-OM-OF-CS\_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	684.75	N.A.	27.30
0-30	1524.42	N.A.	60.70
0-40	2271.52	N.A.	90.50
0-60	2510.96	N.A.	100.00
0-80	2511.06	N.A.	100.00
0-90	2511.06	N.A.	100.00
10-90	2376.67	N.A.	94.60
20-40	1586.77	N.A.	63.20
20-50	1812.09	N.A.	72.20
40-70	239.54	N.A.	9.50
60-80	0.10	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	2511.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.39
10-20	550.36
20-30	839.67
30-40	747.10
40-50	225.31
50-60	14.13
60-70	0.10
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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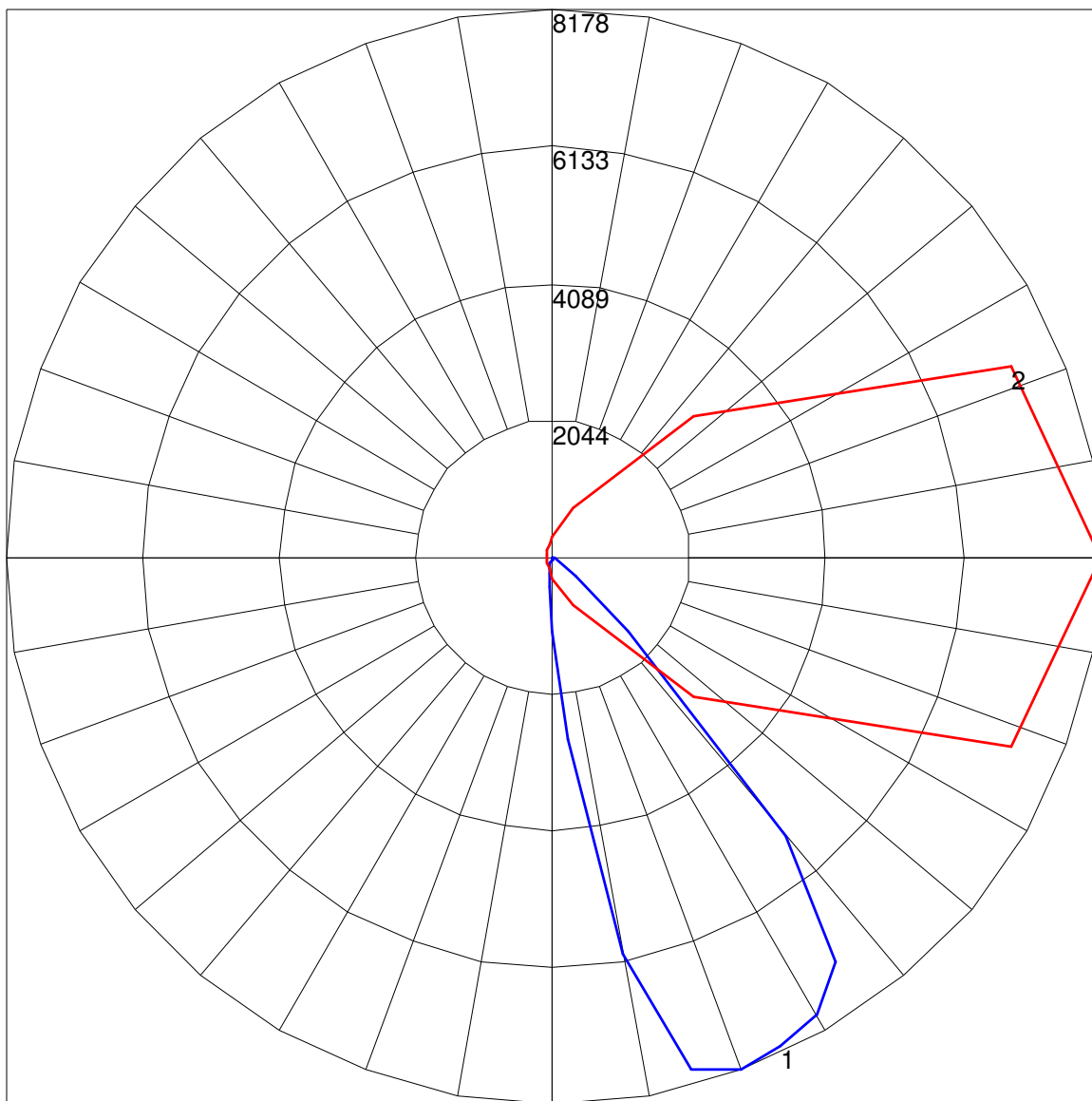
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	153	153	153	153	150	150	150	150	143	143	143	137	137	137	131	131	131	129
1	146	142	139	136	142	139	136	133	134	131	129	129	127	125	125	123	122	119
2	138	131	126	121	135	129	124	120	125	121	117	121	117	115	117	115	112	110
3	130	121	115	109	128	120	113	108	116	111	106	113	108	105	110	106	103	101
4	123	112	105	99	120	111	104	98	108	102	97	105	100	96	103	99	95	93
5	116	104	96	90	114	103	95	90	101	94	89	98	93	88	96	91	87	85
6	109	97	89	83	107	96	88	82	94	87	82	92	86	81	90	85	81	79
7	103	90	82	76	101	89	81	76	87	80	75	86	80	75	84	79	74	72
8	97	84	76	70	96	83	75	70	82	75	69	80	74	69	79	73	69	67
9	92	78	70	65	90	78	70	65	76	69	64	75	69	64	74	68	64	62
10	87	73	65	60	86	73	65	60	72	65	60	71	64	59	70	64	59	57

POLAR GRAPH



Maximum Candela = 8177.598 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)