

## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20402.0

[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"WHITE ASYM FLUSH TRIM

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

[LUMCAT] 6AR-P27-835-DIM-PoE-LM-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	2427
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.02
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	1.06
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	119370	22250	4911
55	30149	7166	3954
65	8888	3689	3186
75	4929	2464	1917
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>	1088.254	1088.254	1088.254	1088.254	1088.254	1088.254	1088.254	1088.254	1088.254
<b>5</b>	2839.036	2536.240	2049.696	1431.164	1014.496	705.230	599.122	468.428	456.782
<b>10</b>	4866.734	4175.738	2787.276	1498.452	780.282	465.840	342.910	288.562	266.564
<b>15</b>	6444.120	5495.618	3183.240	1345.760	565.478	310.560	225.156	192.806	185.042
<b>20</b>	7247.694	6151.676	3084.896	1026.142	385.612	217.392	163.044	143.634	141.046
<b>25</b>	7434.030	6005.454	2512.948	716.876	263.976	156.574	126.812	116.460	116.460
<b>30</b>	6920.312	5110.006	1704.198	459.370	181.160	116.460	99.638	98.344	97.050
<b>35</b>	5329.986	3572.734	1094.724	279.504	125.518	91.874	85.404	85.404	91.874
<b>40</b>	3281.584	1913.826	593.946	161.750	85.404	72.464	78.934	82.816	85.404
<b>45</b>	1541.154	899.330	287.268	93.168	63.406	63.406	72.464	78.934	85.404
<b>50</b>	711.700	402.434	142.340	60.818	49.172	56.936	67.288	72.464	80.228
<b>55</b>	315.736	197.982	75.052	42.702	41.408	46.584	58.230	68.582	72.464
<b>60</b>	150.104	97.050	43.996	28.468	29.762	38.820	46.584	55.642	63.406
<b>65</b>	68.582	49.172	28.468	21.998	24.586	29.762	37.526	42.702	49.172
<b>70</b>	33.644	27.174	19.410	15.528	16.822	23.292	27.174	32.350	38.820
<b>75</b>	23.292	18.116	11.646	7.764	9.058	10.352	15.528	19.410	24.586
<b>80</b>	9.058	5.176	3.882	0.000	0.000	2.588	3.882	9.058	9.058
<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	641.18	N.A.	26.40
0-30	1410.07	N.A.	58.10
0-40	2031.02	N.A.	83.70
0-60	2372.91	N.A.	97.80
0-80	2426.19	N.A.	100.00
0-90	2427.34	N.A.	100.00
10-90	2294.26	N.A.	94.50
20-40	1389.85	N.A.	57.30
20-50	1644.28	N.A.	67.70
40-70	379.92	N.A.	15.70
60-80	53.29	N.A.	2.20
70-80	15.25	N.A.	0.60
80-90	1.14	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	2427.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	133.08
10-20	508.10
20-30	768.89
30-40	620.95
40-50	254.43
50-60	87.45
60-70	38.03
70-80	15.25
80-90	1.14
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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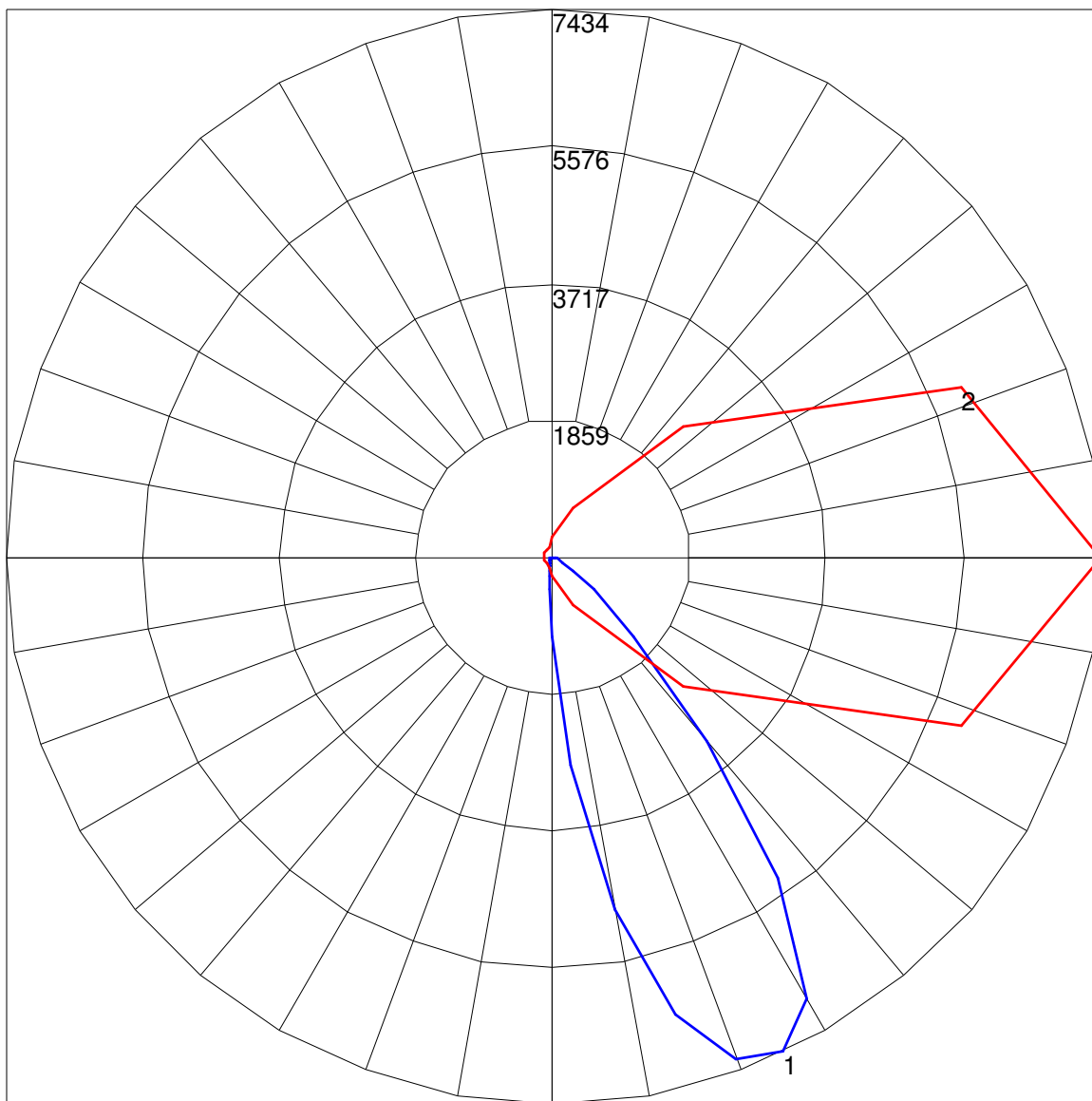
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	154	154	154	154	150	150	150	150	144	144	144	138	138	138	132	132	132	129
1	146	142	138	135	143	139	136	133	134	131	129	129	127	125	124	123	121	119
2	137	130	124	119	134	128	123	118	124	119	115	120	116	113	116	113	111	108
3	129	120	113	107	127	118	111	106	114	109	104	111	106	102	108	104	101	99
4	122	110	102	96	119	109	101	96	106	100	94	103	98	93	101	96	92	90
5	114	102	94	87	112	101	93	87	98	91	86	96	90	85	94	89	84	82
6	108	95	86	80	106	94	85	79	91	84	79	90	83	78	88	82	78	76
7	101	88	79	73	99	87	79	73	85	78	72	84	77	72	82	76	72	69
8	96	82	73	67	94	81	73	67	80	72	67	78	71	66	77	71	66	64
9	90	76	68	62	89	76	68	62	74	67	62	73	66	61	72	66	61	59
10	85	71	63	58	84	71	63	57	70	62	57	69	62	57	68	61	57	55

POLAR GRAPH



Maximum Candela = 7434.03 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.)