



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-L15-835-DIM-UNV-ON-OF-CS\_0 DEGREE TILT\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20451.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 11-MAR-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4AR-L15-835-DIM-UNV-ON-OF-CS\_0 DEGREE TILT

[LUMINAIRE] GEN7 V13 LED 4" SHORT HEATSINK 4" RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC NARROW TIR OPTIC & 4" OPEN ASYM SEMI-SPEC TRIM

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Direct, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1529
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	17.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.40
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	1185	1185	1185
55	0	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>	8833.970	8833.970	8833.970	8833.970	8833.970	8833.970	8833.970	8833.970	8833.970
<b>5</b>	8014.432	7859.873	7877.968	7950.347	7886.262	7931.498	7691.744	7749.044	7747.536
<b>10</b>	5044.644	5028.057	5059.723	5328.127	5135.871	5066.508	4775.486	4976.035	4770.962
<b>15</b>	2135.171	2007.755	2276.159	2304.809	2380.957	2417.147	2301.039	2175.884	2070.332
<b>20</b>	771.285	707.200	793.904	815.768	913.781	872.314	843.664	845.172	808.983
<b>25</b>	245.032	245.032	259.357	290.269	291.777	296.300	277.452	283.483	291.023
<b>30</b>	73.887	71.625	69.363	73.887	76.148	76.148	74.641	76.148	69.363
<b>35</b>	21.110	22.618	22.618	22.618	24.880	24.126	23.372	23.372	19.603
<b>40</b>	9.801	9.047	9.801	10.555	10.555	10.555	9.047	9.047	7.539
<b>45</b>	6.786	6.786	6.786	6.786	6.786	5.278	3.016	5.278	5.278
<b>50</b>	0.000	0.000	0.000	0.000	0.754	0.754	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	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 : 4AR-L15-835-DIM-UNV-ON-OF-CS\_0 DEGREE TILT\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1345.31	N.A.	88.00
0-30	1504.91	N.A.	98.40
0-40	1524.6	N.A.	99.70
0-60	1528.73	N.A.	100.00
0-80	1528.73	N.A.	100.00
0-90	1528.73	N.A.	100.00
10-90	868.18	N.A.	56.80
20-40	179.29	N.A.	11.70
20-50	183.38	N.A.	12.00
40-70	4.13	N.A.	0.30
60-80	0.00	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	1528.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	660.54
10-20	684.77
20-30	159.60
30-40	19.69
40-50	4.09
50-60	0.04
60-70	0.00
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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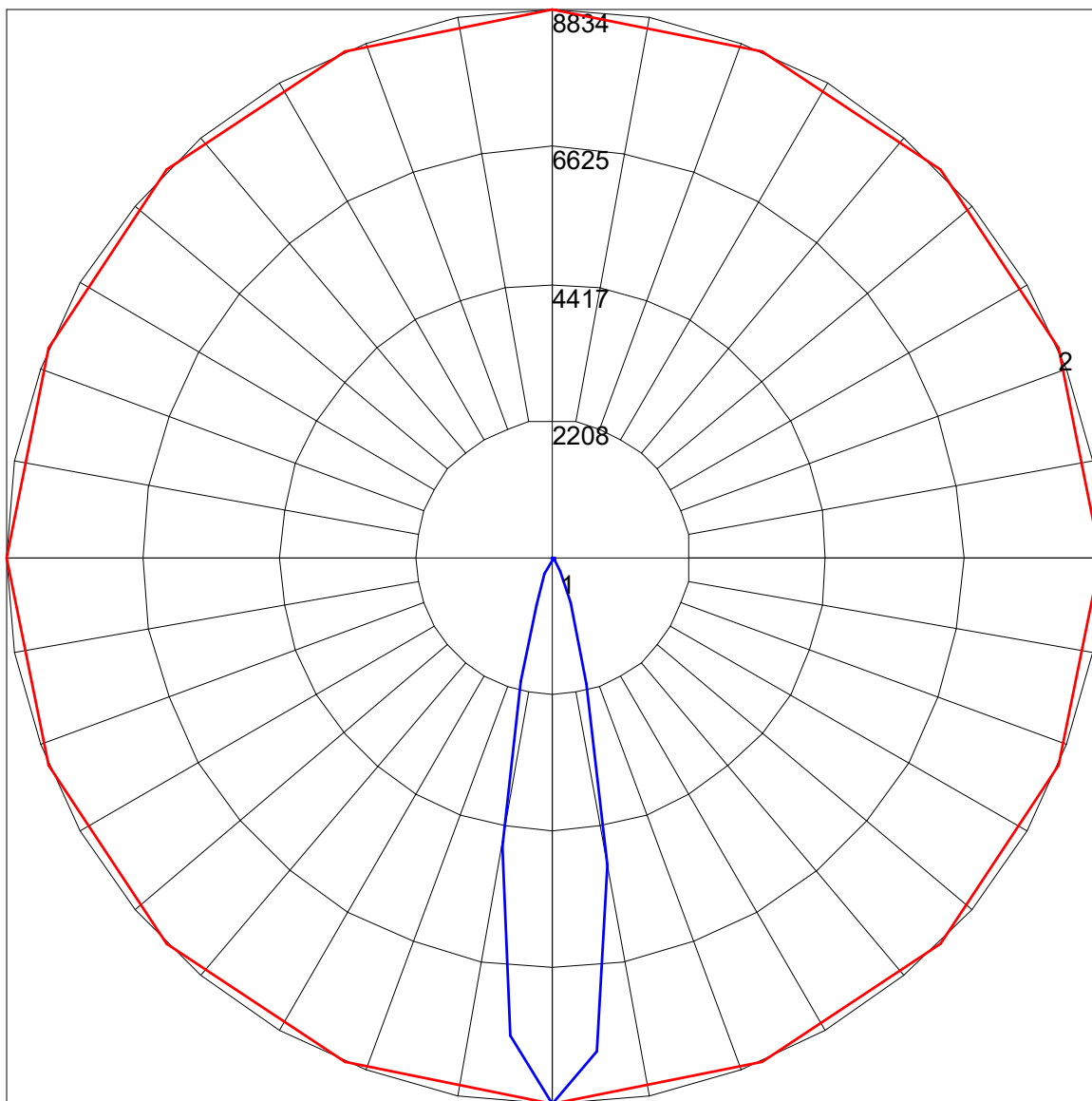
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	179	179	179	179	175	175	175	175	168	168	168	160	160	160	154	154	154	151
1	174	171	168	166	170	168	165	163	162	160	158	156	155	154	151	150	149	147
2	169	164	160	156	166	161	158	155	157	154	151	152	150	148	148	147	145	143
3	164	158	153	149	162	156	151	148	152	148	145	149	146	143	146	143	141	139
4	160	152	147	143	158	151	146	142	148	144	141	145	142	139	143	140	137	136
5	156	148	142	138	154	146	141	137	144	140	136	142	138	135	140	137	134	133
6	152	143	138	134	150	142	137	133	140	136	132	139	135	132	137	134	131	129
7	148	140	134	130	147	139	133	130	137	132	129	136	132	128	134	131	128	126
8	145	136	130	127	144	135	130	126	134	129	126	133	129	125	132	128	125	124
9	142	133	127	124	140	132	127	123	131	126	123	130	126	123	129	125	122	121
10	139	130	124	121	138	129	124	121	128	124	120	127	123	120	126	123	120	119

POLAR GRAPH



Maximum Candela = 8833.97 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)