



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-L30-930-DIM-UNV-ON-OF-WH\_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] 05-17-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4AR-L30-930-DIM-UNV-ON-OF-WH\_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	1958
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	36.9
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	1517	1517	1517
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>	11313.339	11313.339	11313.339	11313.339	11313.339	11313.339	11313.339	11313.339	11313.339
<b>5</b>	10263.787	10065.849	10089.023	10181.715	10099.644	10157.577	9850.532	9923.914	9921.983
<b>10</b>	6460.489	6439.247	6479.800	6823.536	6577.321	6488.490	6115.788	6372.624	6109.995
<b>15</b>	2734.435	2571.257	2914.993	2951.684	3049.204	3095.550	2946.856	2786.575	2651.398
<b>20</b>	987.757	905.685	1016.723	1044.724	1170.246	1117.140	1080.449	1082.381	1036.034
<b>25</b>	313.803	313.803	332.149	371.736	373.668	379.461	355.322	363.046	372.702
<b>30</b>	94.624	91.727	88.831	94.624	97.520	97.520	95.589	97.520	88.831
<b>35</b>	27.035	28.966	28.966	28.966	31.863	30.898	29.932	29.932	25.104
<b>40</b>	12.552	11.587	12.552	13.518	13.518	13.518	11.587	11.587	9.655
<b>45</b>	8.690	8.690	8.690	8.690	8.690	6.759	3.862	6.759	6.759
<b>50</b>	0.000	0.000	0.000	0.000	0.966	0.966	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-L30-930-DIM-UNV-ON-OF-WH\_0 DEGREE TILT\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1722.89	N.A.	88.00
0-30	1927.28	N.A.	98.40
0-40	1952.5	N.A.	99.70
0-60	1957.78	N.A.	100.00
0-80	1957.78	N.A.	100.00
0-90	1957.78	N.A.	100.00
10-90	1111.85	N.A.	56.80
20-40	229.61	N.A.	11.70
20-50	234.84	N.A.	12.00
40-70	5.29	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	1957.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	845.93
10-20	876.96
20-30	204.39
30-40	25.21
40-50	5.24
50-60	0.05
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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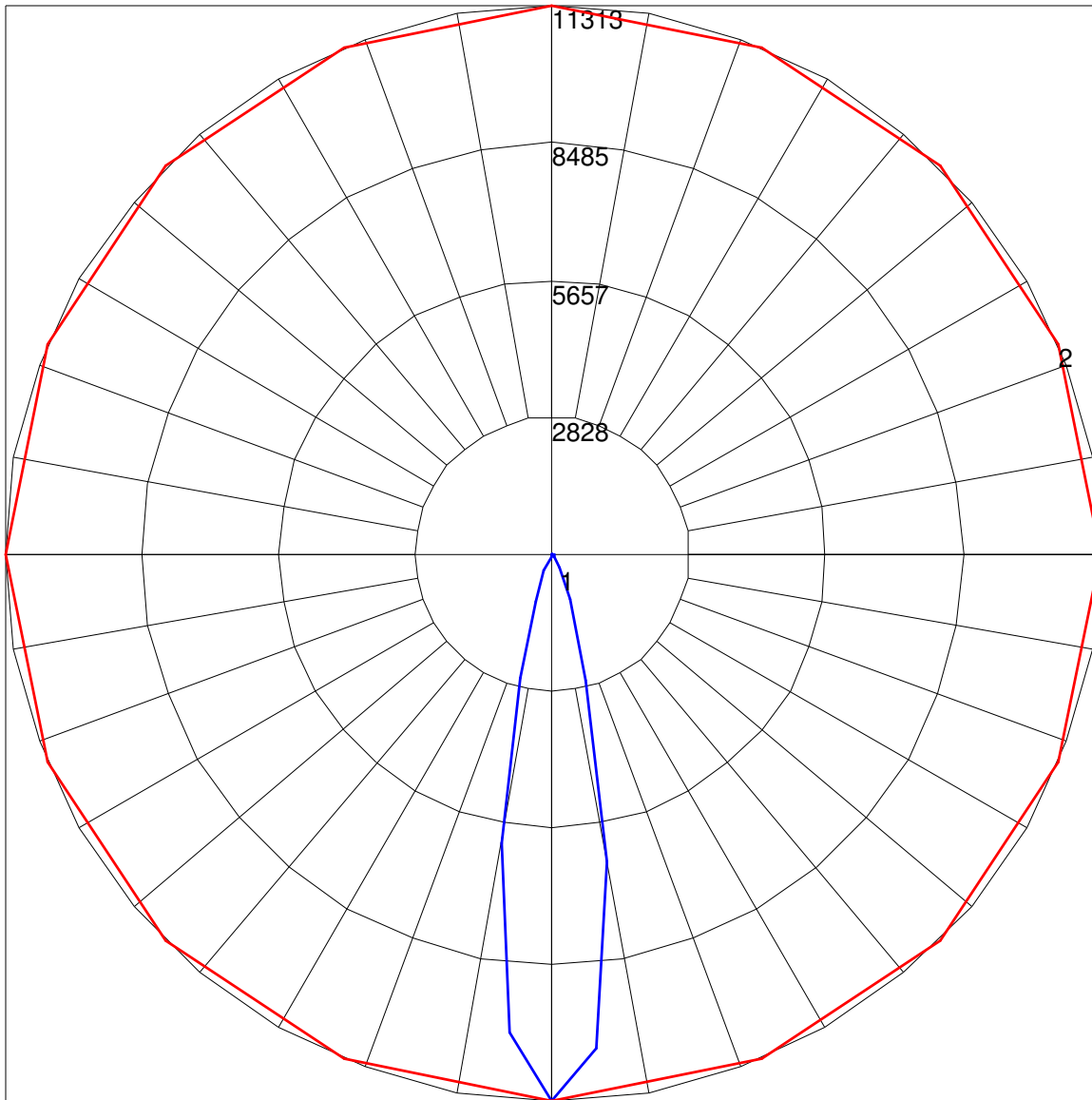
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	102	104	102	100	101	100	98	98	97	96	95
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	98	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90
5	103	98	94	92	102	97	94	91	96	93	90	94	92	90	93	91	89	88
6	101	95	91	89	100	94	91	88	93	90	88	92	89	87	91	89	87	86
7	98	93	89	86	97	92	88	86	91	88	86	90	87	85	89	87	85	84
8	96	90	86	84	95	90	86	84	89	86	84	88	85	83	87	85	83	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79

POLAR GRAPH



Maximum Candela = 11313.339 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.)