



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L14-9DW-DIM-UNV-OM-OF-CS\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20392.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT

[MORE] TILT ACRYLIC MED TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-L14-9DW-DIM-UNV-OM-OF-CS\_0 DEG TILT

[\_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	1402
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	23.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.50
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	743	743	743
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>	4305.408	4305.408	4305.408	4305.408	4305.408	4305.408	4305.408	4305.408	4305.408
<b>5</b>	4295.810	4278.670	4259.474	4229.309	4206.685	4186.118	4173.777	4168.978	4168.293
<b>10</b>	4053.116	4048.317	3989.358	3924.914	3854.300	3785.742	3688.391	3659.597	3590.354
<b>15</b>	3080.286	3085.085	3002.816	2882.841	2686.081	2503.718	2310.386	2154.761	1995.022
<b>20</b>	1364.979	1407.484	1345.097	1255.287	1214.152	1026.305	889.190	813.777	754.817
<b>25</b>	505.268	507.325	494.985	471.675	436.025	402.432	368.839	325.648	323.591
<b>30</b>	225.554	228.296	220.755	212.528	202.244	187.847	172.765	161.110	154.254
<b>35</b>	102.151	104.207	99.408	91.867	91.181	85.697	79.527	74.042	71.300
<b>40</b>	41.134	43.191	39.763	38.392	35.650	34.279	30.851	30.165	28.794
<b>45</b>	9.598	9.598	9.598	8.912	9.598	9.598	8.912	8.227	7.541
<b>50</b>	0.686	1.371	0.686	0.686	1.371	0.000	0.686	1.371	0.686
<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 : 6AR-L14-9DW-DIM-UNV-OM-OF-CS\_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1086.29	N.A.	77.50
0-30	1328.32	N.A.	94.80
0-40	1391.29	N.A.	99.20
0-60	1401.83	N.A.	100.00
0-80	1401.83	N.A.	100.00
0-90	1401.83	N.A.	100.00
10-90	1011.5	N.A.	72.20
20-40	305.01	N.A.	21.80
20-50	315.36	N.A.	22.50
40-70	10.54	N.A.	0.80
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	1401.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	390.34
10-20	695.95
20-30	242.04
30-40	62.97
40-50	10.36
50-60	0.19
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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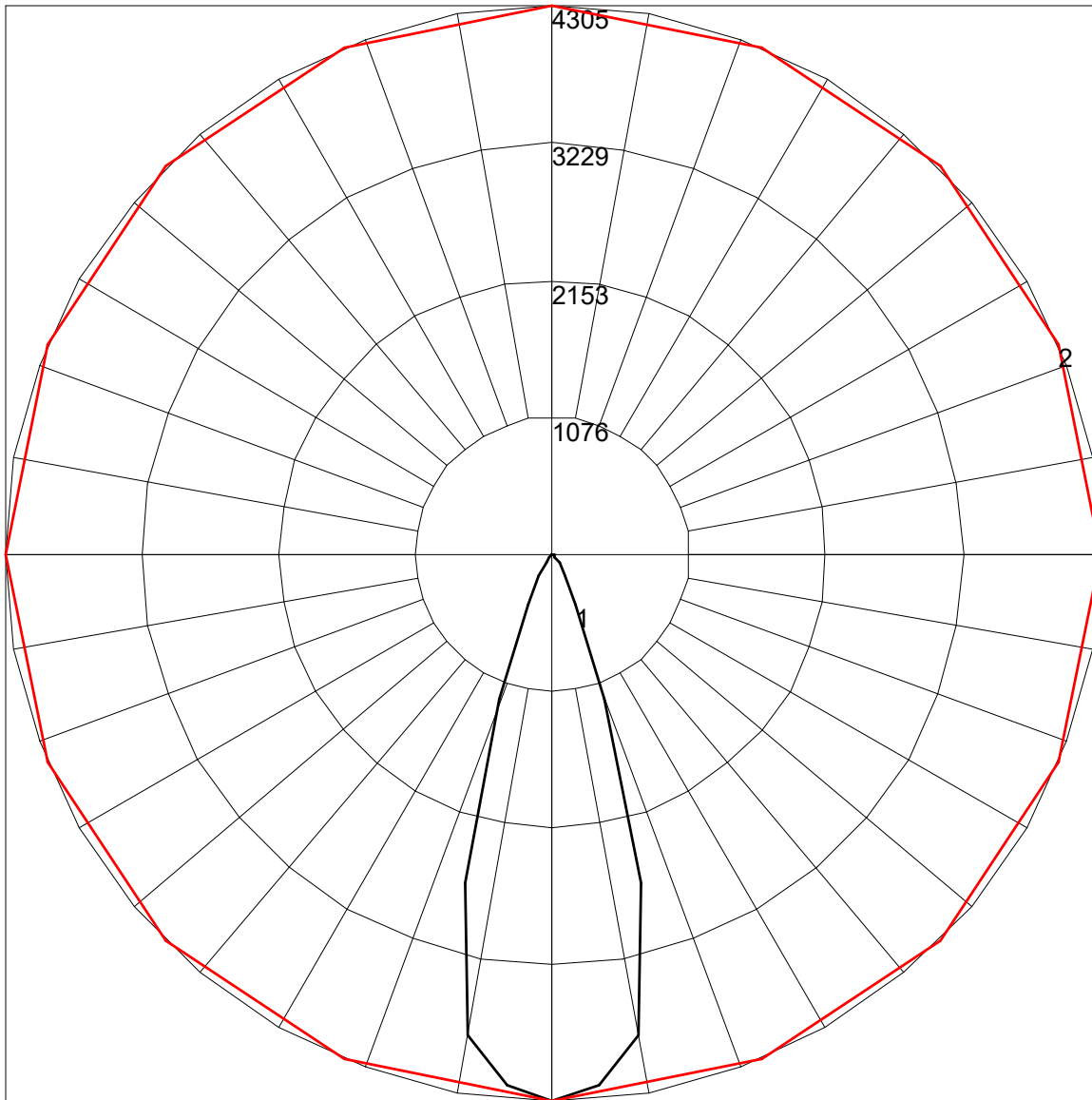
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62	61
1	70	69	68	67	69	68	66	65	65	64	63	63	62	62	61	60	60	59
2	68	65	64	62	66	64	63	61	63	61	60	61	60	59	59	58	58	57
3	65	63	60	58	64	62	60	58	60	58	57	59	57	56	57	56	55	55
4	63	60	57	55	62	59	57	55	58	56	55	57	55	54	56	54	53	53
5	61	58	55	53	60	57	55	53	56	54	52	55	53	52	54	53	51	51
6	59	55	53	51	59	55	52	51	54	52	50	53	51	50	53	51	50	49
7	58	53	51	49	57	53	51	49	52	50	49	52	50	48	51	49	48	47
8	56	52	49	47	55	51	49	47	51	48	47	50	48	47	50	48	46	46
9	54	50	47	46	54	50	47	45	49	47	45	49	47	45	48	46	45	44
10	53	48	46	44	52	48	46	44	48	45	44	47	45	44	47	45	44	43

POLAR GRAPH



Maximum Candela = 4305.408 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)