



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L8-9DW-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-L8-9DW-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	800
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	14
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	424	424	424
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>	2456.723	2456.723	2456.723	2456.723	2456.723	2456.723	2456.723	2456.723	2456.723
<b>5</b>	2451.247	2441.467	2430.513	2413.301	2400.391	2388.655	2381.613	2378.875	2378.484
<b>10</b>	2312.763	2310.024	2276.381	2239.609	2199.315	2160.195	2104.645	2088.215	2048.704
<b>15</b>	1757.653	1760.391	1713.447	1644.988	1532.714	1428.655	1318.337	1229.535	1138.386
<b>20</b>	778.875	803.130	767.530	716.284	692.812	585.623	507.384	464.352	430.709
<b>25</b>	288.313	289.487	282.445	269.144	248.802	229.633	210.465	185.819	184.645
<b>30</b>	128.704	130.269	125.966	121.271	115.403	107.188	98.582	91.932	88.020
<b>35</b>	58.289	59.462	56.724	52.421	52.029	48.900	45.379	42.249	40.685
<b>40</b>	23.472	24.645	22.689	21.907	20.342	19.560	17.604	17.213	16.430
<b>45</b>	5.477	5.477	5.477	5.086	5.477	5.477	5.086	4.694	4.303
<b>50</b>	0.391	0.782	0.391	0.391	0.782	0.000	0.391	0.782	0.391
<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-L8-9DW-DIM-UNV-OM-OF-CS\_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	619.85	N.A.	77.50
0-30	757.96	N.A.	94.80
0-40	793.89	N.A.	99.20
0-60	799.91	N.A.	100.00
0-80	799.91	N.A.	100.00
0-90	799.91	N.A.	100.00
10-90	577.18	N.A.	72.20
20-40	174.04	N.A.	21.80
20-50	179.95	N.A.	22.50
40-70	6.02	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	799.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	222.73
10-20	397.12
20-30	138.11
30-40	35.93
40-50	5.91
50-60	0.11
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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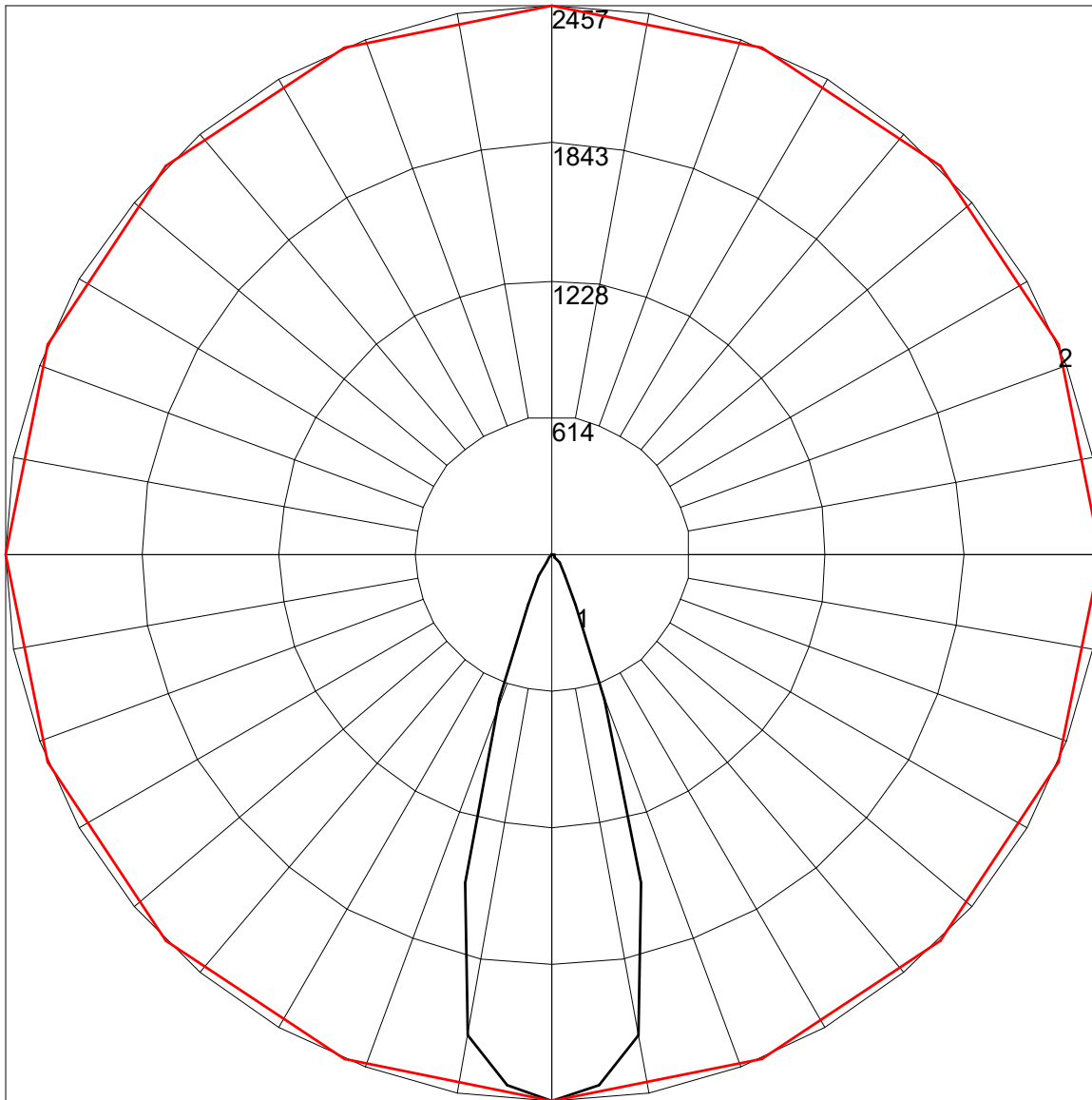
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	41	41	41	41	41	41	41	41	39	39	39	37	37	37	36	36	36	35
1	40	39	39	38	39	39	38	37	37	37	36	36	35	35	35	34	34	34
2	39	37	36	35	38	37	36	35	36	35	34	35	34	34	34	33	33	32
3	37	36	34	33	37	35	34	33	34	33	33	34	33	32	33	32	32	31
4	36	34	33	32	36	34	32	31	33	32	31	32	32	31	32	31	30	30
5	35	33	31	30	34	33	31	30	32	31	30	31	30	30	31	30	29	29
6	34	32	30	29	33	31	30	29	31	30	29	30	29	29	30	29	28	28
7	33	30	29	28	32	30	29	28	30	29	28	30	28	28	29	28	27	27
8	32	29	28	27	31	29	28	27	29	28	27	29	27	27	28	27	27	26
9	31	28	27	26	31	28	27	26	28	27	26	28	27	26	28	26	26	25
10	30	28	26	25	30	27	26	25	27	26	25	27	26	25	27	26	25	25

POLAR GRAPH



Maximum Candela = 2456.723 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.)