



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L12-8TW-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-L12-8TW-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	1228
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	14.6
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	651	651	651
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>
0	3771.070	3771.070	3771.070	3771.070	3771.070	3771.070	3771.070	3771.070	3771.070
5	3762.663	3747.651	3730.838	3704.416	3684.600	3666.585	3655.776	3651.573	3650.973
10	3550.090	3545.887	3494.245	3437.799	3375.949	3315.900	3230.630	3205.410	3144.760
15	2697.997	2702.200	2630.141	2525.056	2352.716	2192.985	2023.648	1887.337	1747.423
20	1195.573	1232.804	1178.159	1099.495	1063.466	898.932	778.834	712.780	661.138
25	442.560	444.362	433.553	413.136	381.911	352.487	323.063	285.232	283.431
30	197.561	199.963	193.357	186.152	177.144	164.534	151.323	141.115	135.110
35	89.473	91.274	87.071	80.466	79.865	75.061	69.657	64.853	62.451
40	36.029	37.831	34.828	33.627	31.225	30.024	27.022	26.422	25.221
45	8.407	8.407	8.407	7.806	8.407	8.407	7.806	7.206	6.605
50	0.600	1.201	0.600	0.600	1.201	0.000	0.600	1.201	0.600
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	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	951.47	N.A.	77.50
0-30	1163.47	N.A.	94.80
0-40	1218.62	N.A.	99.20
0-60	1227.86	N.A.	100.00
0-80	1227.86	N.A.	100.00
0-90	1227.86	N.A.	100.00
10-90	885.96	N.A.	72.20
20-40	267.15	N.A.	21.80
20-50	276.22	N.A.	22.50
40-70	9.23	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	1227.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	341.89
10-20	609.58
20-30	212.00
30-40	55.16
40-50	9.07
50-60	0.16
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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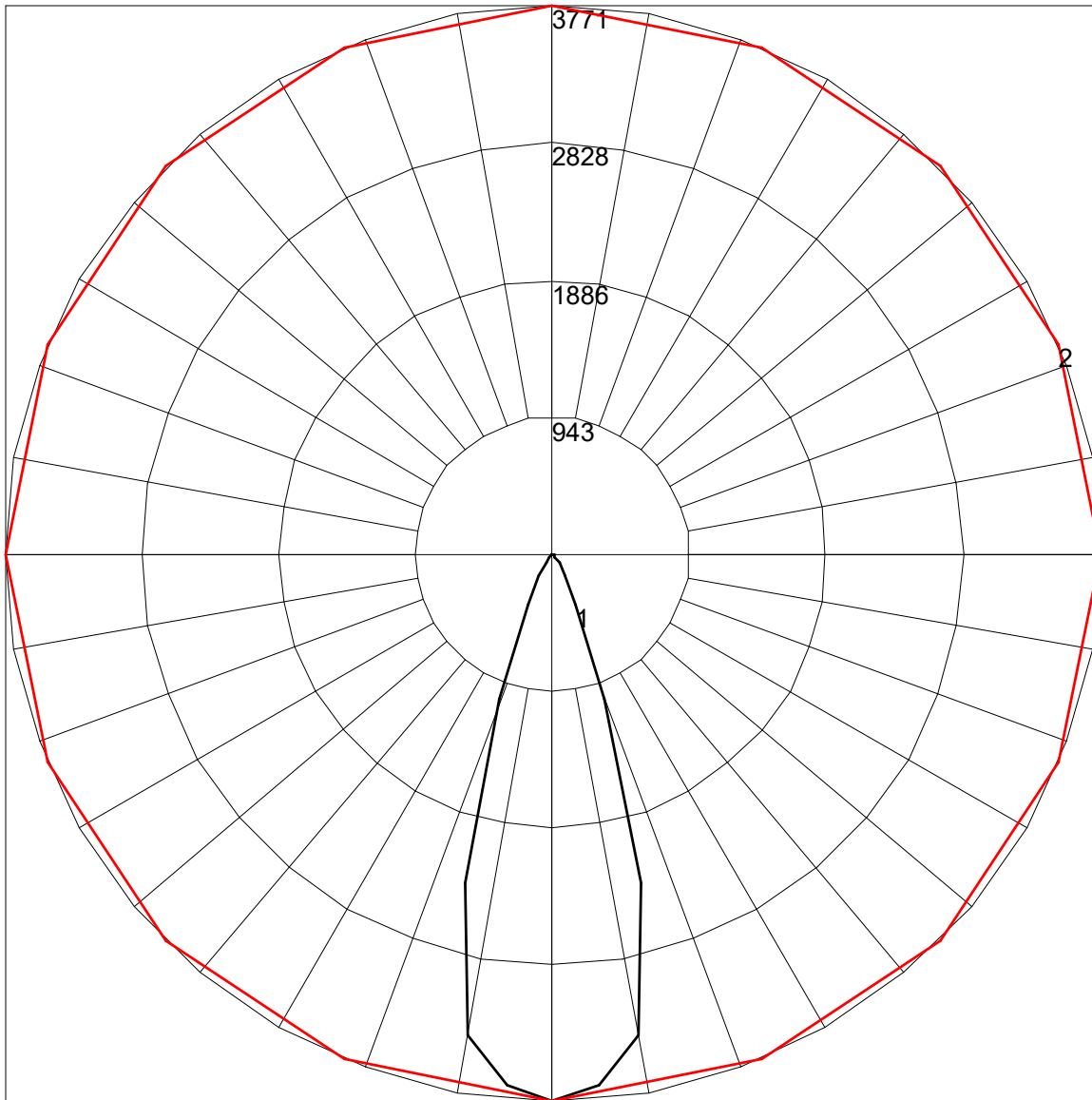
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	61
1	70	68	67	66	68	67	66	65	65	64	63	62	62	61	60	60	59	58
2	67	65	63	61	66	64	62	61	62	61	60	60	59	58	59	58	57	56
3	65	62	60	58	64	61	59	57	60	58	57	58	57	56	57	56	55	54
4	63	59	57	55	62	59	56	55	58	56	54	56	55	54	55	54	53	52
5	61	57	54	53	60	57	54	52	56	53	52	55	53	51	54	52	51	50
6	59	55	52	50	58	55	52	50	54	52	50	53	51	50	52	51	49	49
7	57	53	50	48	56	53	50	48	52	50	48	51	49	48	51	49	48	47
8	55	51	49	47	55	51	48	47	50	48	46	50	48	46	49	47	46	46
9	54	49	47	45	53	49	47	45	49	47	45	48	46	45	48	46	45	44
10	52	48	45	44	52	48	45	44	47	45	44	47	45	43	47	45	43	43

POLAR GRAPH



Maximum Candela = 3771.07 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.)