



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L12-8TW-DIM-UNV-OW-OF-CS_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20389.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

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

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

[LUMCAT] 6AR-L12-8TW-DIM-UNV-OW-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	1180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	14.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.82
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	403	314	538
55	0	55	110
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	1599.568	1599.568	1599.568	1599.568	1599.568	1599.568	1599.568	1599.568	1599.568
5	1605.934	1600.726	1597.832	1593.202	1587.415	1582.207	1573.526	1567.160	1563.109
10	1630.240	1622.717	1610.564	1602.462	1601.304	1600.147	1588.573	1577.577	1564.845
15	1627.347	1612.879	1595.517	1571.211	1558.480	1547.484	1527.808	1486.719	1469.357
20	1497.714	1515.655	1465.885	1456.047	1436.371	1400.490	1366.925	1348.985	1314.841
25	1108.239	1074.674	1105.924	1075.831	1053.840	984.973	976.292	962.982	942.148
30	641.216	648.740	611.123	570.034	564.247	551.515	526.052	505.218	482.648
35	151.045	138.892	116.900	132.526	116.900	113.428	113.428	102.433	119.215
40	32.408	28.936	26.042	27.200	30.093	28.357	27.778	27.778	23.727
45	5.208	4.051	4.051	5.787	6.945	7.523	6.366	7.523	6.366
50	1.736	1.157	0.579	1.157	1.736	2.315	1.736	2.315	2.315
55	0.000	0.000	0.579	0.579	1.157	0.579	0.000	1.157	0.579
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6AR-L12-8TW-DIM-UNV-OW-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	584.92	N.A.	49.60
0-30	1045.08	N.A.	88.60
0-40	1171.37	N.A.	99.30
0-60	1179.81	N.A.	100.00
0-80	1179.81	N.A.	100.00
0-90	1179.81	N.A.	100.00
10-90	1027.76	N.A.	87.10
20-40	586.45	N.A.	49.70
20-50	594.30	N.A.	50.40
40-70	8.44	N.A.	0.70
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	1179.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	152.05
10-20	432.87
20-30	460.16
30-40	126.29
40-50	7.84
50-60	0.60
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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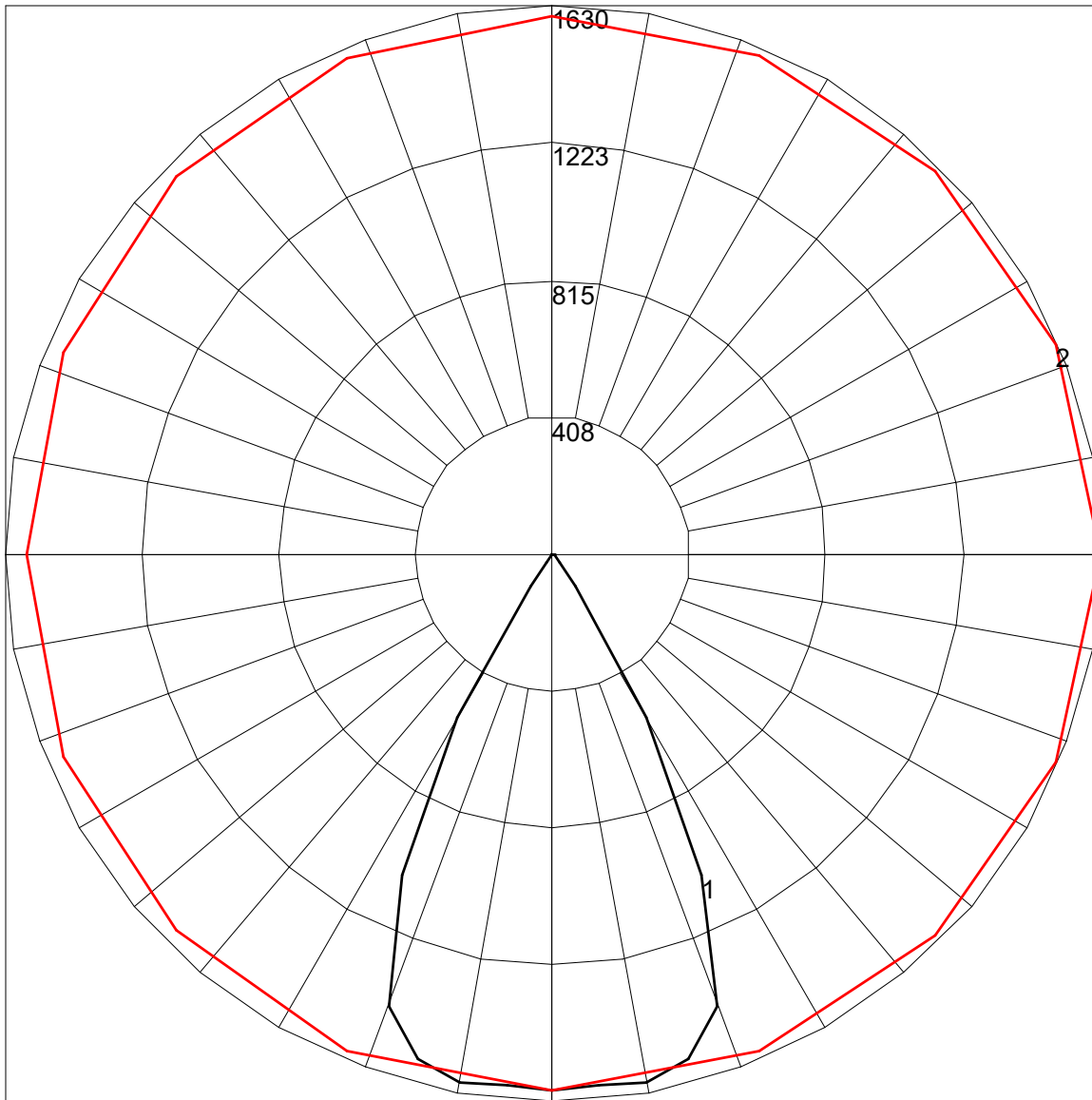
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	59
1	68	66	65	64	66	65	64	63	63	62	61	60	60	59	58	58	57	56
2	65	62	60	58	64	61	59	58	59	58	57	58	56	55	56	55	54	53
3	62	59	56	54	61	58	56	54	56	54	53	55	53	52	54	52	51	50
4	60	56	53	50	58	55	52	50	54	51	50	52	51	49	51	50	48	48
5	57	53	50	47	56	52	49	47	51	49	47	50	48	46	49	47	46	45
6	55	50	47	44	54	49	46	44	49	46	44	48	45	44	47	45	43	43
7	52	47	44	42	51	47	44	42	46	44	42	46	43	41	45	43	41	40
8	50	45	42	40	49	45	42	40	44	41	39	44	41	39	43	41	39	38
9	48	43	40	38	47	43	40	38	42	39	37	42	39	37	41	39	37	36
10	46	41	38	36	45	41	38	36	40	37	36	40	37	36	39	37	35	35

POLAR GRAPH



Maximum Candela = 1630.24 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)