



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L23-9DW-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-L23-9DW-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	2296
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	37.7
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	1217	1217	1217
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	7050.795	7050.795	7050.795	7050.795	7050.795	7050.795	7050.795	7050.795	7050.795
5	7035.076	7007.008	6975.571	6926.171	6889.120	6855.438	6835.229	6827.370	6826.247
10	6637.627	6629.768	6533.212	6427.675	6312.033	6199.759	6040.330	5993.175	5879.779
15	5044.462	5052.321	4917.592	4721.113	4398.887	4100.239	3783.627	3528.766	3267.168
20	2235.371	2304.981	2202.812	2055.733	1988.369	1680.739	1456.191	1332.690	1236.135
25	827.458	830.826	810.617	772.444	714.061	659.047	604.033	533.301	529.932
30	369.381	373.872	361.522	348.049	331.208	307.630	282.930	263.843	252.616
35	167.288	170.656	162.797	150.447	149.324	140.342	130.238	121.256	116.765
40	67.364	70.732	65.119	62.873	58.382	56.137	50.523	49.400	47.155
45	15.718	15.718	15.718	14.596	15.718	15.718	14.596	13.473	12.350
50	1.123	2.245	1.123	1.123	2.245	0.000	1.123	2.245	1.123
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6AR-L23-9DW-DIM-UNV-OM-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1778.97	N.A.	77.50
0-30	2175.34	N.A.	94.80
0-40	2278.46	N.A.	99.20
0-60	2295.73	N.A.	100.00
0-80	2295.73	N.A.	100.00
0-90	2295.73	N.A.	100.00
10-90	1656.49	N.A.	72.20
20-40	499.50	N.A.	21.80
20-50	516.46	N.A.	22.50
40-70	17.26	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	2295.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	639.24
10-20	1139.73
20-30	396.37
30-40	103.12
40-50	16.96
50-60	0.31
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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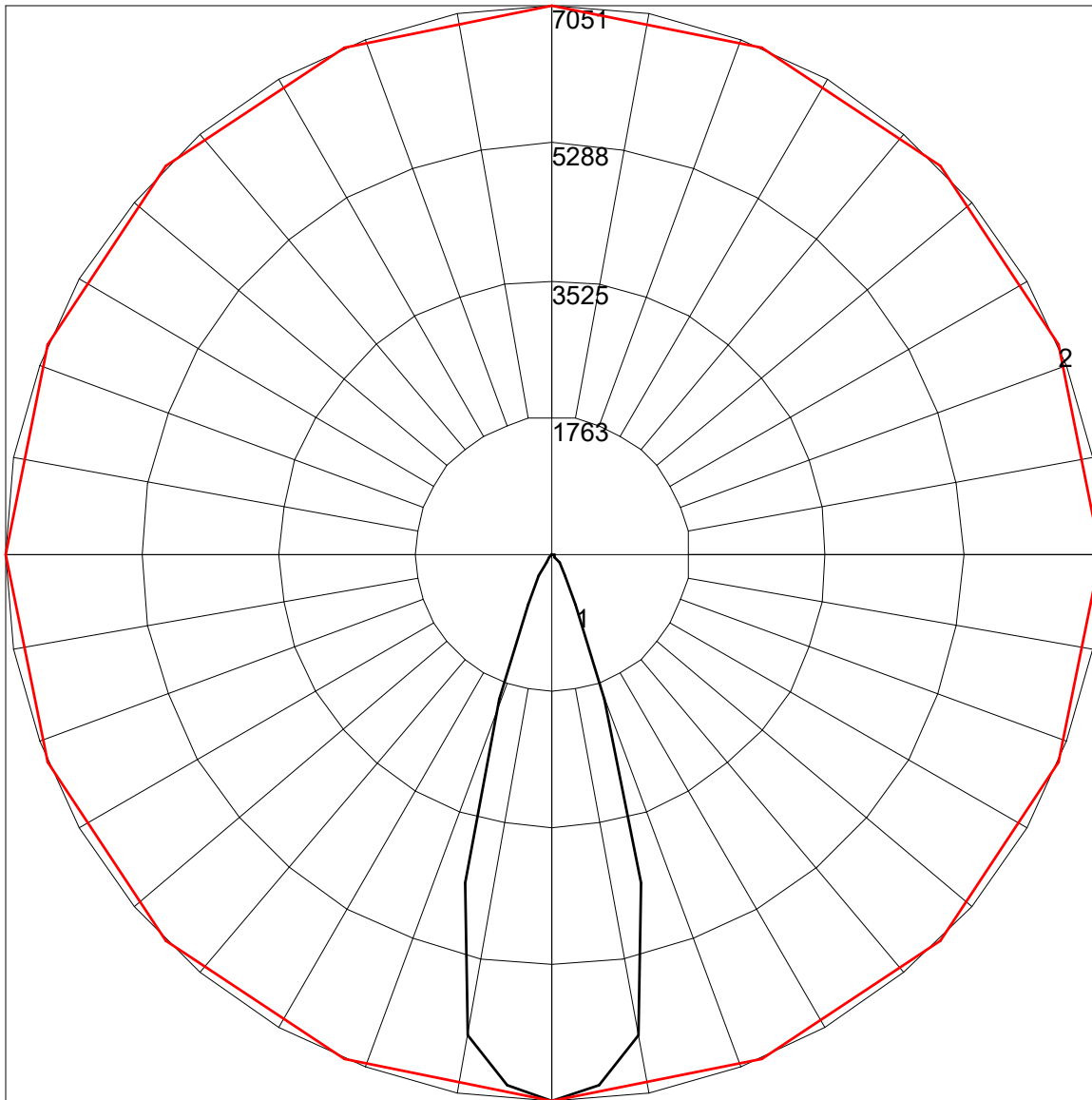
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	134	134	134	134	131	131	131	131	125	125	125	119	119	119	115	115	115	112
1	129	127	124	122	126	124	122	120	120	118	117	116	114	113	112	111	110	108
2	125	120	117	114	122	118	115	113	115	112	110	112	110	108	109	107	106	104
3	120	115	111	107	118	113	110	107	111	108	105	108	106	103	106	104	102	100
4	116	110	106	102	115	109	105	101	107	103	100	105	102	99	103	100	98	97
5	113	106	101	97	111	105	100	97	103	99	96	101	98	95	100	97	95	93
6	109	102	97	93	108	101	96	93	100	96	93	98	95	92	97	94	91	90
7	106	98	93	90	105	98	93	90	96	92	89	95	91	89	94	91	88	87
8	103	95	90	87	101	94	90	86	93	89	86	92	89	86	91	88	85	84
9	100	92	87	84	99	91	87	84	90	86	83	90	86	83	89	85	83	82
10	97	89	84	81	96	88	84	81	88	84	81	87	83	80	86	83	80	79

POLAR GRAPH



Maximum Candela = 7050.795 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.)