



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L23-9DW-DIM-UNV-ON-OF-CS_25 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20396.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-MAY-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 25 TILT

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

[MORE] ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L23-9DW-DIM-UNV-ON-OF-CS_25 DEG TILT

[LAMPCAT] BXRE-35E2000

[_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	2408
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.20
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	1.02
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	125233	7924	1378
55	7964	319	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	604.928	604.928	604.928	604.928	604.928	604.928	604.928	604.928	604.928
5	1666.888	1484.520	1153.144	779.512	527.088	376.968	285.784	251.312	237.968
10	3770.792	2996.840	1623.520	788.408	395.872	240.192	193.488	175.696	172.360
15	8606.880	5516.632	1925.984	637.176	244.640	144.560	124.544	111.200	113.424
20	11732.712	7904.096	1979.360	464.816	154.568	102.304	86.736	78.952	83.400
25	12915.880	8236.584	1589.048	295.792	104.528	73.392	65.608	60.048	61.160
30	12337.640	6557.464	1028.600	171.248	74.504	53.376	47.816	51.152	53.376
35	9395.288	3709.632	553.776	103.416	54.488	40.032	42.256	43.368	47.816
40	4911.704	1634.640	254.648	65.608	34.472	26.688	28.912	31.136	31.136
45	1616.848	691.664	102.304	25.576	17.792	17.792	3.336	0.000	0.000
50	415.888	147.896	25.576	10.008	11.120	0.000	0.000	0.000	0.000
55	83.400	24.464	3.336	0.000	0.000	0.000	0.000	0.000	0.000
60	10.008	2.224	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-ON-OFF-CS_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	544.86	N.A.	22.60
0-30	1477.12	N.A.	61.30
0-40	2196.88	N.A.	91.20
0-60	2408.02	N.A.	100.00
0-80	2408.24	N.A.	100.00
0-90	2408.24	N.A.	100.00
10-90	2328.85	N.A.	96.70
20-40	1652.01	N.A.	68.60
20-50	1848.11	N.A.	76.70
40-70	211.37	N.A.	8.80
60-80	0.22	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	2408.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.40
10-20	465.47
20-30	932.26
30-40	719.75
40-50	196.10
50-60	15.05
60-70	0.22
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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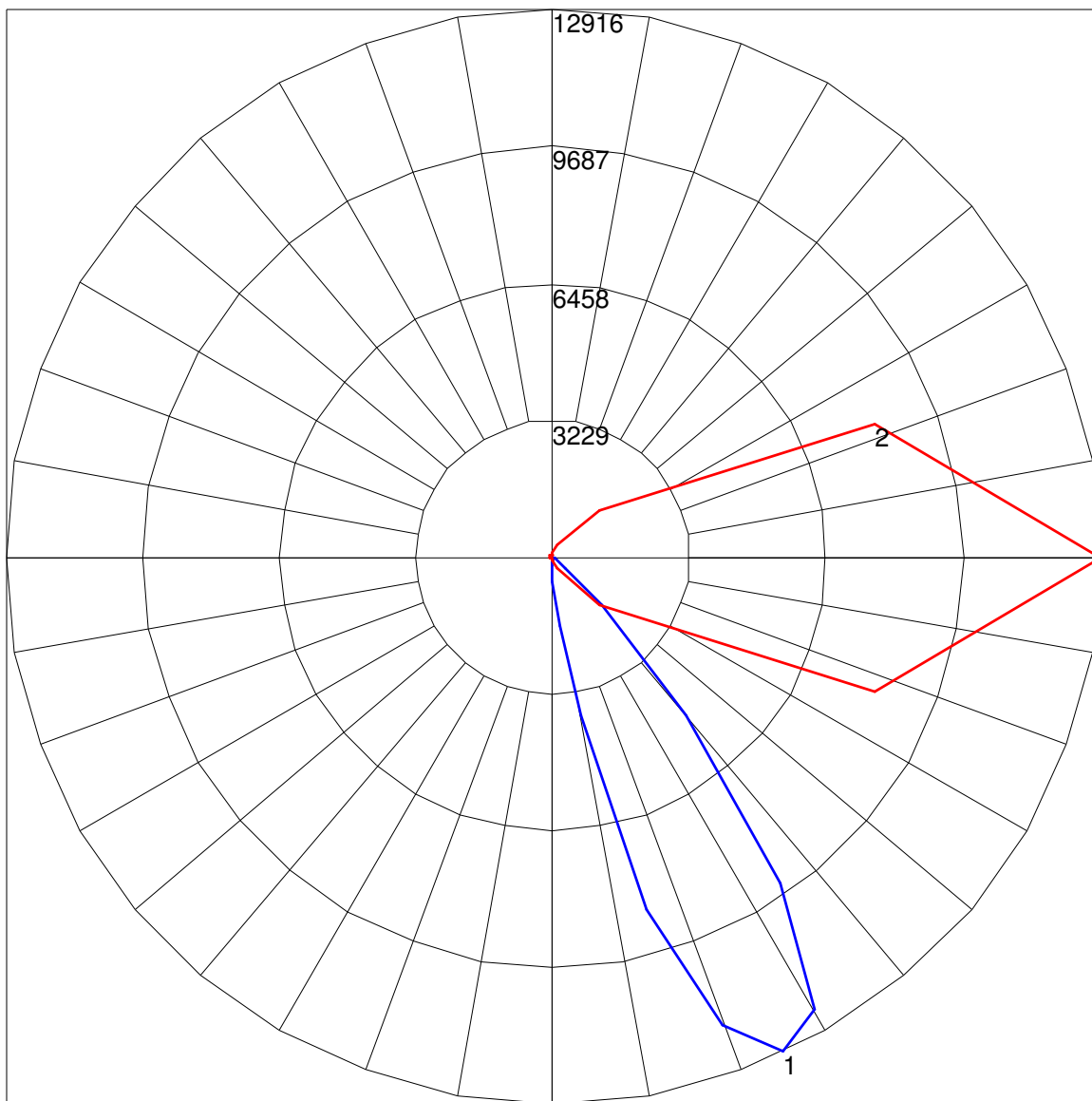
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	132	132	132	132	129	129	129	129	124	124	124	118	118	118	113	113	113	111
1	126	122	120	117	123	120	117	115	116	113	111	111	110	108	108	106	105	103
2	119	113	108	104	116	111	107	103	107	104	101	104	101	99	101	99	96	95
3	112	104	98	94	110	103	97	93	100	95	91	97	93	90	95	91	89	87
4	106	97	90	85	104	95	89	84	93	87	83	90	86	82	88	84	81	79
5	99	89	82	77	98	88	82	77	86	80	76	84	79	75	82	78	75	73
6	94	83	75	70	92	82	75	70	80	74	69	78	73	69	77	72	69	67
7	88	77	69	64	87	76	69	64	75	68	64	73	68	63	72	67	63	61
8	83	71	64	59	82	71	64	59	69	63	59	68	63	58	67	62	58	56
9	78	66	59	54	77	66	59	54	65	58	54	64	58	54	63	57	54	52
10	74	62	55	50	73	62	55	50	61	54	50	60	54	50	59	53	50	48

POLAR GRAPH



Maximum Candela = 12915.88 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)