



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L23-9DW-DIM-UNV-AM-OF-WH_25 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20411.0

[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] TILT ACRYLIC MED TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED

[MORE] SOLITE LENS ADVANCE #XI025C070V054DSM5 @530mA

[LUMCAT] 6AR-L23-9DW-DIM-UNV-AM-OF-WH_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	1980
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.08
Spacing Criterion (90-270)	0.50
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	116964	17054	2842
55	14228	2973	1805
65	2018	1009	1009
75	1177	235	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	912.952	912.952	912.952	912.952	912.952	912.952	912.952	912.952	912.952
5	2041.632	1901.520	1540.120	1150.920	823.992	603.816	490.392	414.776	394.760
10	3735.208	3221.464	2120.584	1179.832	647.184	391.424	271.328	222.400	214.616
15	5265.320	4516.944	2514.232	1028.600	451.472	242.416	170.136	137.888	128.992
20	6105.992	5167.464	2488.656	790.632	299.128	155.680	107.864	93.408	85.624
25	6312.824	5174.136	2020.504	539.320	194.600	107.864	76.728	64.496	62.272
30	5939.192	4534.736	1425.584	333.600	125.656	72.280	53.376	46.704	46.704
35	4998.440	3305.976	850.680	194.600	82.288	52.264	40.032	38.920	40.032
40	3387.152	1968.240	457.032	115.648	55.600	38.920	33.360	33.360	34.472
45	1510.096	920.736	220.176	63.384	36.696	31.136	27.800	32.248	33.360
50	590.472	306.912	80.064	33.360	24.464	23.352	23.352	25.576	27.800
55	149.008	80.064	31.136	20.016	18.904	20.016	20.016	22.240	23.352
60	38.920	23.352	15.568	13.344	13.344	13.344	14.456	16.680	18.904
65	15.568	12.232	7.784	7.784	7.784	8.896	11.120	12.232	13.344
70	7.784	6.672	5.560	3.336	3.336	3.336	3.336	5.560	6.672
75	5.560	3.336	1.112	0.000	0.000	0.000	1.112	2.224	3.336
80	2.224	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-AM-OF-WH_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	512.71	N.A.	25.90
0-30	1153.04	N.A.	58.20
0-40	1699.64	N.A.	85.80
0-60	1967.69	N.A.	99.40
0-80	1980.33	N.A.	100.00
0-90	1980.37	N.A.	100.00
10-90	1876.03	N.A.	94.70
20-40	1186.93	N.A.	59.90
20-50	1411.77	N.A.	71.30
40-70	278.60	N.A.	14.10
60-80	12.64	N.A.	0.60
70-80	2.10	N.A.	0.10
80-90	0.04	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	1980.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.35
10-20	408.36
20-30	640.33
30-40	546.60
40-50	224.84
50-60	43.21
60-70	10.54
70-80	2.10
80-90	0.04
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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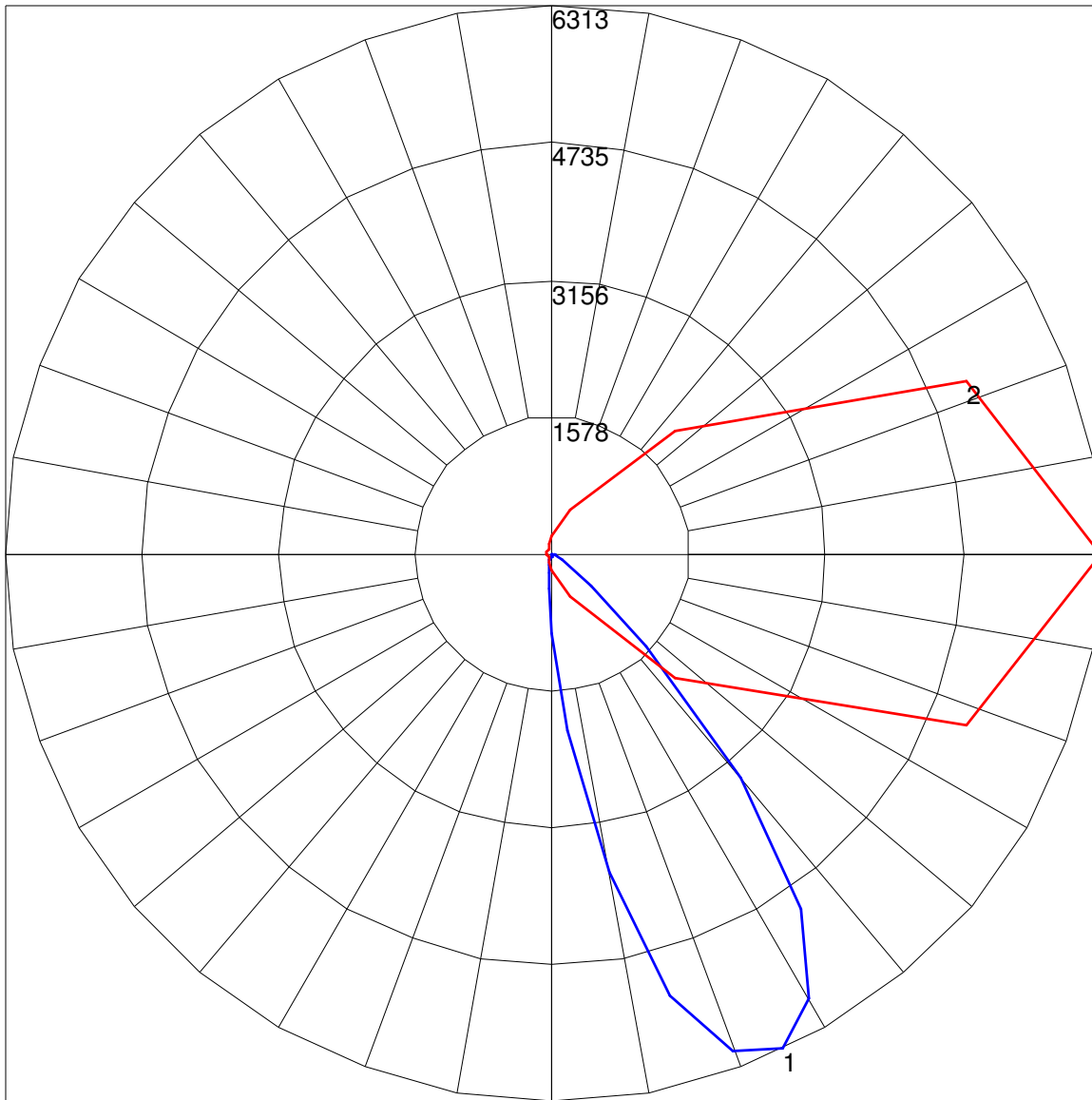
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	117	123	120	117	115	115	113	111	111	109	108	107	106	105	103
2	119	113	108	104	116	111	106	102	107	103	100	104	101	98	101	98	96	94
3	112	104	98	93	109	102	97	92	99	94	91	96	92	89	94	91	88	86
4	105	96	89	84	103	95	88	83	92	87	82	90	85	81	88	84	80	79
5	99	89	81	76	97	88	81	76	85	80	75	84	78	74	82	77	74	72
6	93	82	75	69	91	81	74	69	79	73	69	78	72	68	76	71	68	66
7	88	76	69	64	86	75	68	63	74	68	63	73	67	63	71	66	62	61
8	83	71	64	58	81	70	63	58	69	63	58	68	62	58	67	61	58	56
9	78	66	59	54	77	66	59	54	64	58	54	63	58	53	62	57	53	52
10	74	62	55	50	73	61	54	50	60	54	50	59	54	50	59	53	49	48

POLAR GRAPH



Maximum Candela = 6312.824 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.)