



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20402.0

[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 MED TIR OPTIC & 6"WHITE ASYM FLUSH TRIM

[MORE] w/SOLITE LENS ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L23-9DW-DIM-UNV-LM-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	2086
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	55
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.02
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	1.06
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	102581	19121	4220
55	25908	6158	3398
65	7638	3170	2738
75	4236	2118	1647
85	0	0	0

IES INDOOR REPORT

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

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	935.192	935.192	935.192	935.192	935.192	935.192	935.192	935.192	935.192
5	2439.728	2179.520	1761.408	1229.872	871.808	606.040	514.856	402.544	392.536
10	4182.232	3588.424	2395.248	1287.696	670.536	400.320	294.680	247.976	229.072
15	5537.760	4722.664	2735.520	1156.480	485.944	266.880	193.488	165.688	159.016
20	6228.312	5286.448	2651.008	881.816	331.376	186.816	140.112	123.432	121.208
25	6388.440	5160.792	2159.504	616.048	226.848	134.552	108.976	100.080	100.080
30	5946.976	4391.288	1464.504	394.760	155.680	100.080	85.624	84.512	83.400
35	4580.328	3070.232	940.752	240.192	107.864	78.952	73.392	73.392	78.952
40	2820.032	1644.648	510.408	139.000	73.392	62.272	67.832	71.168	73.392
45	1324.392	772.840	246.864	80.064	54.488	54.488	62.272	67.832	73.392
50	611.600	345.832	122.320	52.264	42.256	48.928	57.824	62.272	68.944
55	271.328	170.136	64.496	36.696	35.584	40.032	50.040	58.936	62.272
60	128.992	83.400	37.808	24.464	25.576	33.360	40.032	47.816	54.488
65	58.936	42.256	24.464	18.904	21.128	25.576	32.248	36.696	42.256
70	28.912	23.352	16.680	13.344	14.456	20.016	23.352	27.800	33.360
75	20.016	15.568	10.008	6.672	7.784	8.896	13.344	16.680	21.128
80	7.784	4.448	3.336	0.000	0.000	2.224	3.336	7.784	7.784
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-LM-OF-WH_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	551.00	N.A.	26.40
0-30	1211.75	N.A.	58.10
0-40	1745.36	N.A.	83.70
0-60	2039.16	N.A.	97.80
0-80	2084.95	N.A.	100.00
0-90	2085.93	N.A.	100.00
10-90	1971.57	N.A.	94.50
20-40	1194.37	N.A.	57.30
20-50	1413.01	N.A.	67.70
40-70	326.48	N.A.	15.70
60-80	45.79	N.A.	2.20
70-80	13.11	N.A.	0.60
80-90	0.98	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	2085.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

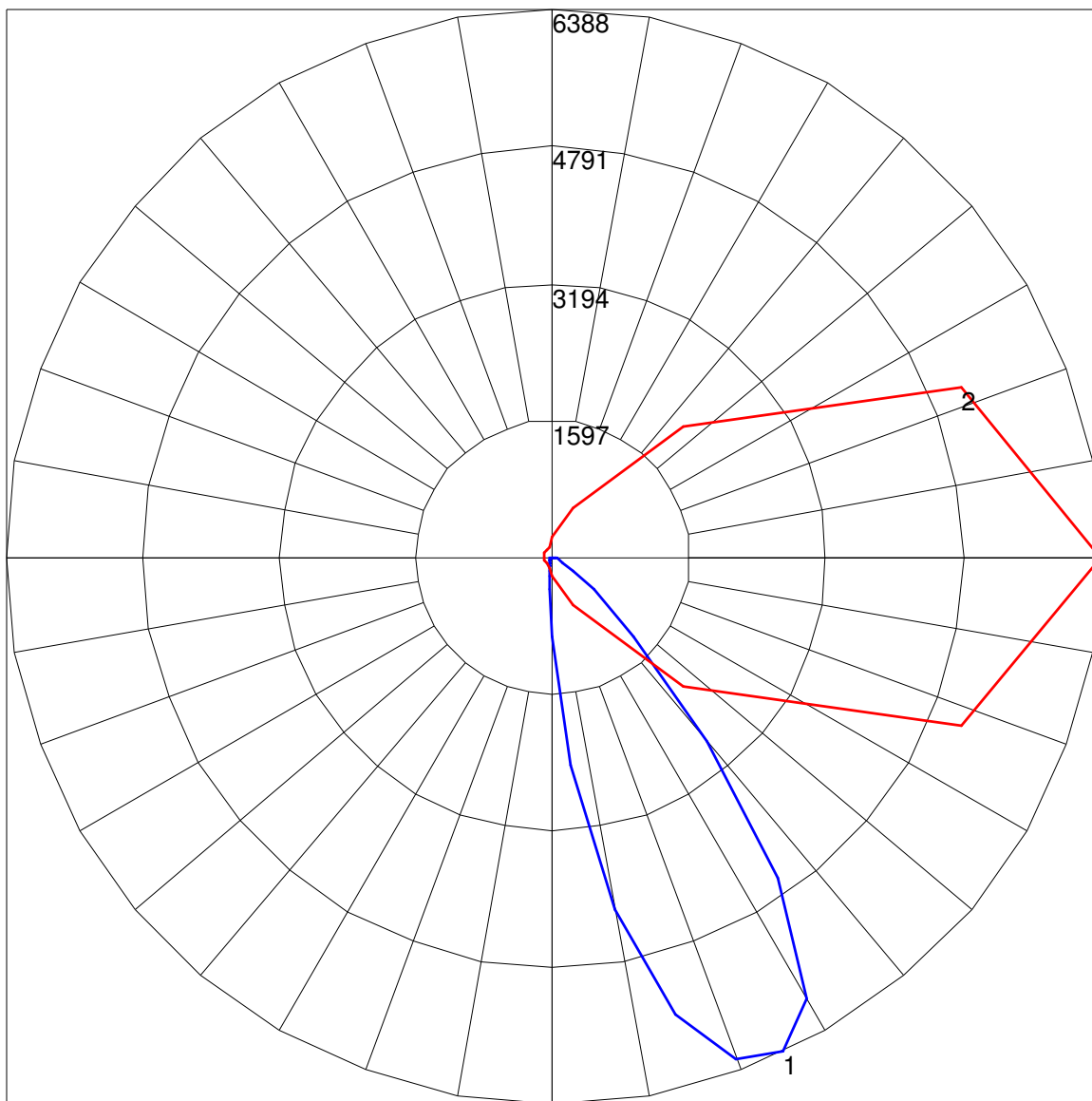
Zone	Lumens
0-10	114.36
10-20	436.64
20-30	660.75
30-40	533.62
40-50	218.64
50-60	75.15
60-70	32.69
70-80	13.11
80-90	0.98
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6AR-L23-9DW-DIM-UNV-LM-OF-WH_25 DEGREE TILT.IES****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	132	132	132	132	129	129	129	129	124	124	124	118	118	118	113	113	113	111
1	125	122	119	116	123	119	117	114	115	113	111	111	109	107	107	105	104	102
2	118	112	107	103	116	110	105	101	106	102	99	103	100	97	100	97	95	93
3	111	103	97	92	109	101	96	91	98	93	89	96	91	88	93	90	87	85
4	104	95	88	83	102	94	87	82	91	86	81	89	84	80	87	83	79	77
5	98	88	80	75	96	87	80	75	85	79	74	83	77	73	81	76	73	71
6	92	81	74	68	91	80	73	68	79	72	68	77	71	67	75	71	67	65
7	87	76	68	63	85	75	68	63	73	67	62	72	66	62	70	65	61	60
8	82	70	63	58	81	70	63	58	68	62	57	67	61	57	66	61	57	55
9	78	66	58	53	76	65	58	53	64	58	53	63	57	53	62	57	53	51
10	73	61	54	49	72	61	54	49	60	54	49	59	53	49	58	53	49	47

POLAR GRAPH



Maximum Candela = 6388.44 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.)