



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L23-9DW-DIM-UNV-AN-OF-WH\_25 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 20414.0  
 [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"WHITE ASYM TRIM w/ANGLED  
 [MORE] SOLITE LENS ADVANCE # XI025C070V054DSM5 @ 530mA  
 [LUMCAT] 6AR-L23-9DW-DIM-UNV-AN-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	2113
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.28
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	1.04
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	152536	12575	2326
55	27501	2867	1168
65	3170	721	288
75	706	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>
<b>0</b>	658.304	658.304	658.304	658.304	658.304	658.304	658.304	658.304	658.304
<b>5</b>	1640.200	1518.992	1200.960	847.344	572.680	398.096	294.680	259.096	246.864
<b>10</b>	3487.232	2850.056	1675.784	854.016	422.560	235.744	164.576	141.224	132.328
<b>15</b>	6090.424	4605.904	2020.504	725.024	280.224	143.448	101.192	88.960	87.848
<b>20</b>	8570.184	5925.848	1999.376	537.096	175.696	95.632	70.056	65.608	64.496
<b>25</b>	9548.744	6178.272	1646.872	356.952	116.760	70.056	56.712	52.264	52.264
<b>30</b>	8880.432	5184.144	1118.672	215.728	78.952	53.376	44.480	41.144	41.144
<b>35</b>	6734.272	3488.344	667.200	131.216	56.712	42.256	36.696	33.360	34.472
<b>40</b>	3988.744	1977.136	358.064	78.952	42.256	34.472	27.800	24.464	25.576
<b>45</b>	1969.352	956.320	162.352	50.040	30.024	23.352	17.792	17.792	20.016
<b>50</b>	807.312	384.752	70.056	27.800	20.016	15.568	13.344	12.232	12.232
<b>55</b>	288.008	131.216	30.024	16.680	12.232	11.120	10.008	11.120	12.232
<b>60</b>	91.184	40.032	13.344	8.896	7.784	5.560	4.448	5.560	7.784
<b>65</b>	24.464	12.232	5.560	3.336	2.224	2.224	1.112	3.336	3.336
<b>70</b>	10.008	5.560	3.336	1.112	0.000	0.000	0.000	0.000	3.336
<b>75</b>	3.336	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	2.224	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	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-AN-OF-WH\_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	472.49	N.A.	22.40
0-30	1206.63	N.A.	57.10
0-40	1815.46	N.A.	85.90
0-60	2104.59	N.A.	99.60
0-80	2112.64	N.A.	100.00
0-90	2112.68	N.A.	100.00
10-90	2032.34	N.A.	96.20
20-40	1342.97	N.A.	63.60
20-50	1581.39	N.A.	74.90
40-70	296.49	N.A.	14.00
60-80	8.05	N.A.	0.40
70-80	0.69	N.A.	0.00
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	2112.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

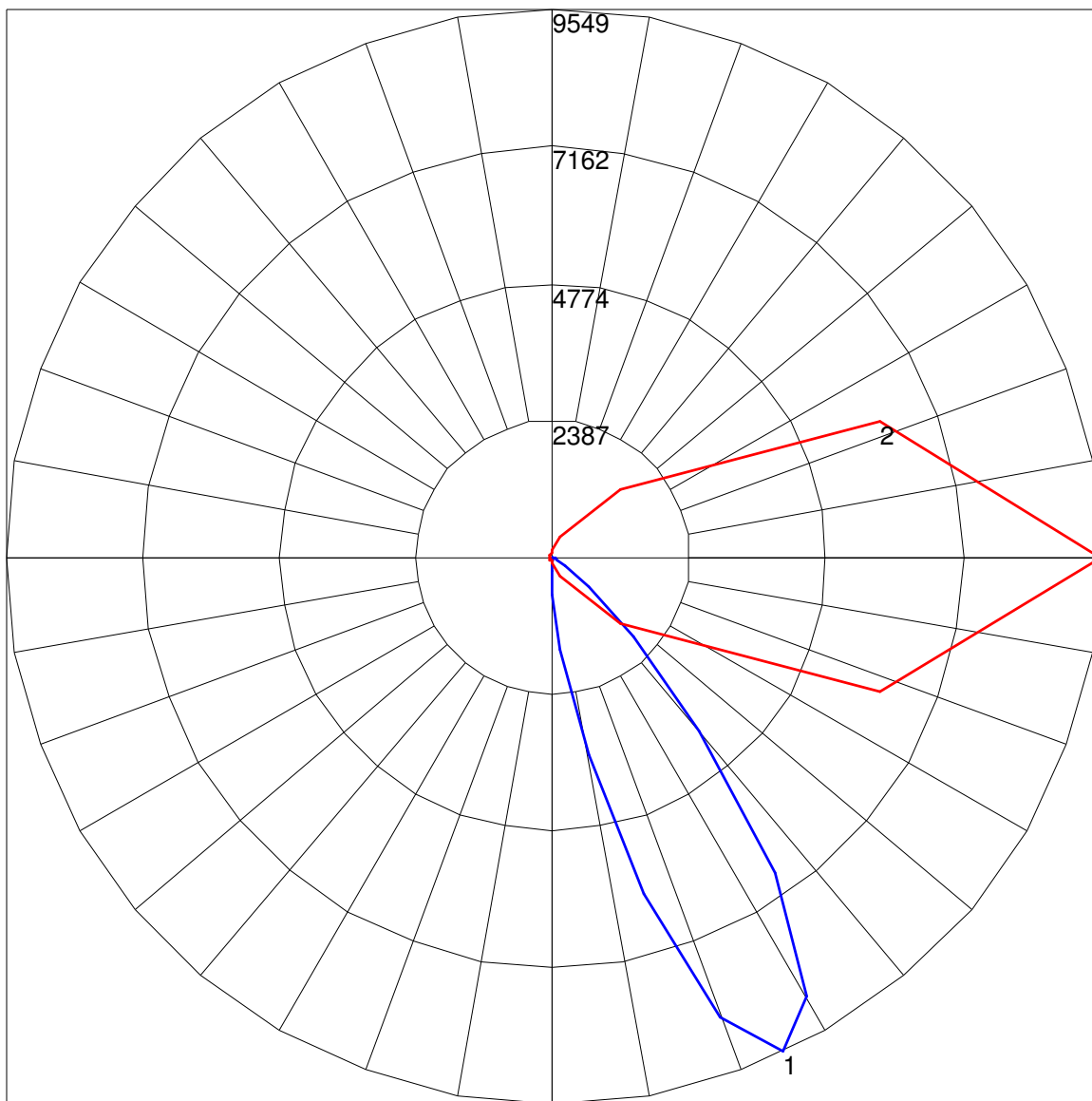
Zone	Lumens
0-10	80.34
10-20	392.15
20-30	734.14
30-40	608.83
40-50	238.42
50-60	50.71
60-70	7.36
70-80	0.69
80-90	0.04
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	126	122	119	116	123	120	117	115	115	113	111	111	109	108	107	106	105	103
2	118	112	107	103	116	110	106	102	107	103	100	103	100	98	100	98	96	94
3	111	103	97	92	109	102	96	92	99	94	90	96	92	89	93	90	87	85
4	105	95	88	83	103	94	88	83	91	86	82	89	84	81	87	83	80	78
5	98	88	81	75	96	87	80	75	85	79	74	83	78	73	81	76	73	71
6	92	81	74	68	91	80	73	68	79	72	68	77	71	67	75	70	67	65
7	87	75	68	62	85	74	67	62	73	67	62	72	66	61	70	65	61	59
8	82	70	62	57	80	69	62	57	68	61	57	67	61	56	65	60	56	54
9	77	65	58	53	76	64	57	52	63	57	52	62	56	52	61	56	52	50
10	73	60	53	48	71	60	53	48	59	53	48	58	52	48	57	52	48	46

POLAR GRAPH



Maximum Candela = 9548.744 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.)