



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20390.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 16-MAY-2018

[MANUFAC] WILLIAM INDOOR

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

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

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

[MORE] ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L23-9DW-DIM-UNV-OW-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	2192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.90
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	145990	18260	947
55	2124	212	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	2896.760	2896.760	2896.760	2896.760	2896.760	2896.760	2896.760	2896.760	2896.760
5	4046.568	3879.768	3567.296	3094.696	2566.496	2089.448	1786.984	1521.216	1442.264
10	4207.808	3989.856	3452.760	2777.776	2011.608	1367.760	962.992	740.592	700.560
15	4236.720	3755.224	3162.528	2440.840	1468.952	813.984	491.504	351.392	344.720
20	3909.792	3511.696	2967.928	2059.424	989.680	433.680	252.424	181.256	169.024
25	3245.928	3299.304	2827.816	1634.640	601.592	226.848	135.664	105.640	102.304
30	2960.144	3073.568	2548.704	1165.376	318.032	113.424	72.280	56.712	52.264
35	2882.304	2873.408	2121.696	589.360	121.208	48.928	28.912	23.352	22.240
40	2781.112	2516.456	1134.240	179.032	40.032	17.792	14.456	12.232	12.232
45	1884.840	1170.936	235.744	31.136	12.232	6.672	6.672	6.672	6.672
50	392.536	194.600	23.352	6.672	3.336	1.112	2.224	2.224	3.336
55	22.240	13.344	2.224	0.000	0.000	0.000	0.000	0.000	2.224
60	1.112	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-OW-OF-CS_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	762.36	N.A.	34.80
0-30	1369.37	N.A.	62.50
0-40	1928.13	N.A.	88.00
0-60	2192.18	N.A.	100.00
0-80	2192.2	N.A.	100.00
0-90	2192.2	N.A.	100.00
10-90	1951.38	N.A.	89.00
20-40	1165.77	N.A.	53.20
20-50	1416.52	N.A.	64.60
40-70	264.07	N.A.	12.00
60-80	0.02	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	2192.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	240.81
10-20	521.54
20-30	607.01
30-40	558.75
40-50	250.75
50-60	13.30
60-70	0.02
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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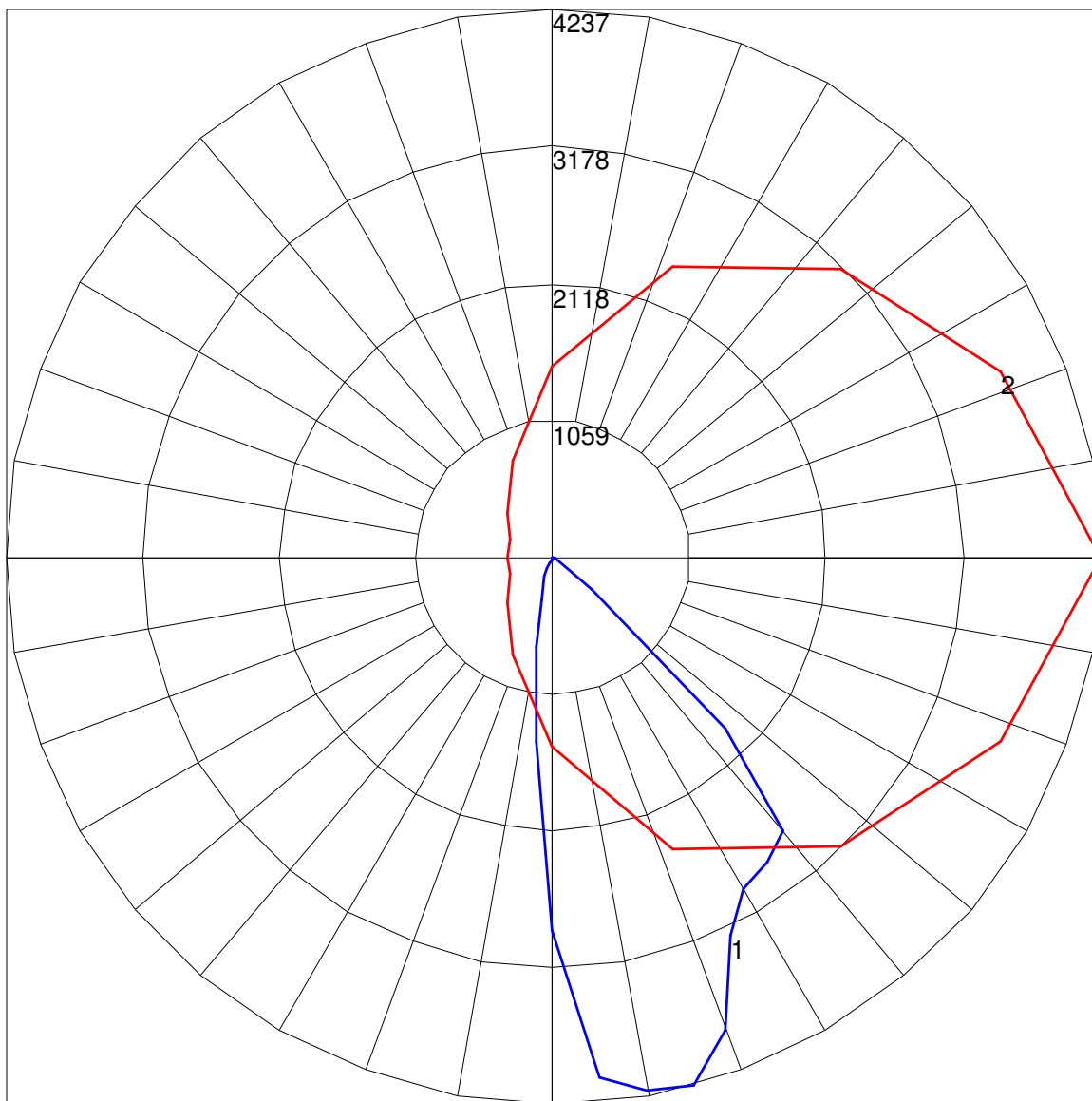
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	123	120	118	123	121	118	116	116	114	112	112	110	109	108	107	106	104
2	120	114	109	106	117	112	108	104	108	105	102	105	102	100	102	100	98	96
3	113	106	100	96	111	104	99	95	101	97	93	99	95	92	96	93	90	89
4	107	98	92	87	105	97	91	87	95	90	86	93	88	85	90	87	84	82
5	101	92	85	80	100	91	84	80	89	83	79	87	82	78	85	81	78	76
6	96	86	79	74	94	85	78	74	83	77	73	82	76	73	80	76	72	70
7	91	80	73	68	89	79	73	68	78	72	68	77	71	67	75	71	67	65
8	86	75	68	64	85	75	68	63	73	67	63	72	67	63	71	66	63	61
9	82	71	64	59	81	70	64	59	69	63	59	68	63	59	67	62	59	57
10	78	67	60	56	77	66	60	56	65	59	55	64	59	55	64	59	55	54

POLAR GRAPH



Maximum Candela = 4236.72 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)