



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-L20-927-DIM-UNV-OM-OF-CS\_25 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20449.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 21-MAY-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 4"SHORT HEATSINK 4"RND ADJ DOWNLIGHT @ 25 TILT

[MORE] ACRYLIC MED TIR OPTIC & 4"OPEN ASYM SEMI-SPEC TRIM

[MORE] ADVANCE # XI025C070V054DSM1 @ 610mA

[LUMCAT] 4AR-L20-927-DIM-UNV-OM-OF-CS\_25 DEGREE TILT

[LAMPCAT] BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Direct, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1281
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	22.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	85445	4292	0
55	962	0	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>
<b>0</b>	313.547	313.547	313.547	313.547	313.547	313.547	313.547	313.547	313.547
<b>5</b>	890.742	808.073	593.580	405.898	278.543	194.384	150.443	126.610	122.887
<b>10</b>	2246.219	1613.166	846.056	409.622	209.280	120.652	82.669	65.540	61.816
<b>15</b>	4490.203	3380.499	1106.724	372.384	140.016	70.008	46.176	32.770	26.812
<b>20</b>	5284.125	4280.923	1252.699	282.267	89.372	36.494	17.874	14.151	14.151
<b>25</b>	5142.619	4399.341	1124.599	200.342	52.878	14.151	9.682	6.703	8.192
<b>30</b>	4854.394	4120.798	777.537	125.866	20.853	7.448	2.979	2.234	2.234
<b>35</b>	4249.643	3314.960	482.609	56.602	7.448	0.745	0.000	0.000	0.000
<b>40</b>	2332.612	1202.055	179.489	13.406	0.000	0.000	0.000	0.000	0.000
<b>45</b>	489.312	204.811	24.577	0.745	0.000	0.000	0.000	0.000	0.000
<b>50</b>	50.644	28.301	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	4.469	0.745	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	1.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	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

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Zone	Lumens	%Lamp	%Fixt
0-20	295.59	N.A.	23.10
0-30	769.58	N.A.	60.10
0-40	1195.86	N.A.	93.30
0-60	1281.12	N.A.	100.00
0-80	1281.14	N.A.	100.00
0-90	1281.14	N.A.	100.00
10-90	1238.99	N.A.	96.70
20-40	900.27	N.A.	70.30
20-50	983.88	N.A.	76.80
40-70	85.28	N.A.	6.70
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	1281.14	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

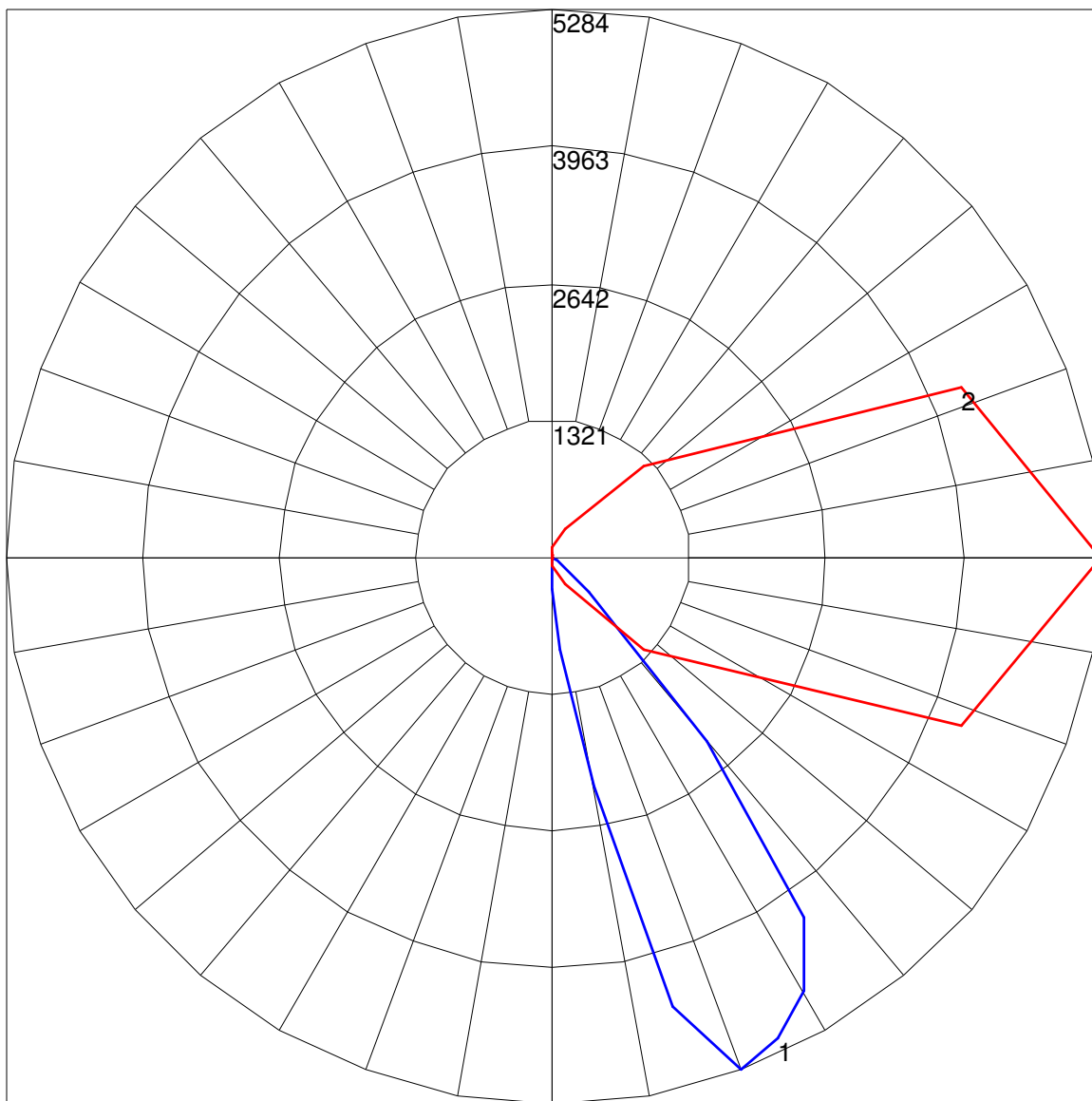
Zone	Lumens
0-10	42.16
10-20	253.43
20-30	473.98
30-40	426.28
40-50	83.62
50-60	1.65
60-70	0.02
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	74
1	84	82	80	78	82	80	79	77	77	76	75	75	74	72	72	71	70	69
2	80	76	73	70	78	75	72	69	72	70	68	70	68	66	68	66	65	63
3	75	70	66	63	74	69	65	62	67	64	61	65	63	60	63	61	59	58
4	71	65	60	57	69	64	60	57	62	59	56	61	58	55	59	57	55	53
5	67	60	55	52	65	59	55	52	58	54	51	57	53	51	55	52	50	49
6	63	56	51	47	62	55	50	47	54	50	47	53	49	46	52	49	46	45
7	59	52	47	43	58	51	46	43	50	46	43	49	45	43	48	45	42	41
8	56	48	43	40	55	48	43	40	47	42	39	46	42	39	45	42	39	38
9	53	45	40	37	52	44	40	36	44	39	36	43	39	36	42	39	36	35
10	50	42	37	34	49	41	37	34	41	36	34	40	36	33	39	36	33	32

POLAR GRAPH



Maximum Candela = 5284.125 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)