



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-L11-8TW-DIM-UNV-AM-OF-WH_25 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20467.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE,S 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"ASYM TRIM w/SOLITE LENS

[MORE] ADVANCE # XI025C070V054DSM1 @ 610mA

[LUMCAT] 4AR-L11-8TW-DIM-AM-OF-WH_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	780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	14.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	1.08
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	66985	9388	3227
55	8198	2652	2893
65	2781	2127	1800
75	1603	801	0
85	0	0	0

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-L11-8TW-DIM-UNV-AM-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	252.56	252.56	252.56	252.56	252.56	252.56	252.56	252.56	252.56
5	651.28	553.28	451.36	347.20	243.04	168.56	128.24	103.60	91.84
10	1264.48	1085.28	712.32	381.92	194.32	109.76	70.00	56.00	49.84
15	2198.00	1839.60	918.96	360.08	141.12	66.64	43.12	32.48	29.12
20	2819.60	2289.84	976.08	279.44	90.16	39.20	28.00	21.28	19.04
25	3001.04	2372.72	829.92	182.00	52.64	27.44	21.28	19.60	18.48
30	2643.76	2131.36	556.08	95.76	32.48	21.28	19.60	20.72	21.28
35	1893.92	1325.52	304.08	50.96	23.52	20.16	21.84	21.84	23.52
40	1148.00	678.72	135.52	31.36	20.16	21.28	22.40	23.52	24.08
45	383.60	244.72	53.76	19.04	18.48	20.72	21.28	22.96	22.96
50	128.24	78.40	21.84	14.56	16.24	17.92	19.04	19.60	20.16
55	38.08	25.76	12.32	11.20	13.44	14.56	14.56	14.00	14.56
60	15.12	11.20	9.52	8.40	9.52	9.52	9.52	9.52	8.96
65	9.52	8.40	7.28	6.16	6.16	5.60	5.60	5.04	3.92
70	6.16	5.60	4.48	3.36	3.36	2.24	1.68	0.56	1.68
75	3.36	3.36	1.68	0.56	0.00	0.00	0.00	0.00	0.56
80	1.68	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4AR-L11-8TW-DIM-UNV-AM-OF-WH_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	188.96	N.A.	24.20
0-30	468.07	N.A.	60.00
0-40	684.29	N.A.	87.70
0-60	772.13	N.A.	99.00
0-80	779.88	N.A.	100.00
0-90	779.95	N.A.	100.00
10-90	748.20	N.A.	95.90
20-40	495.34	N.A.	63.50
20-50	566.35	N.A.	72.60
40-70	94.20	N.A.	12.10
60-80	7.76	N.A.	1.00
70-80	1.39	N.A.	0.20
80-90	0.07	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	779.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

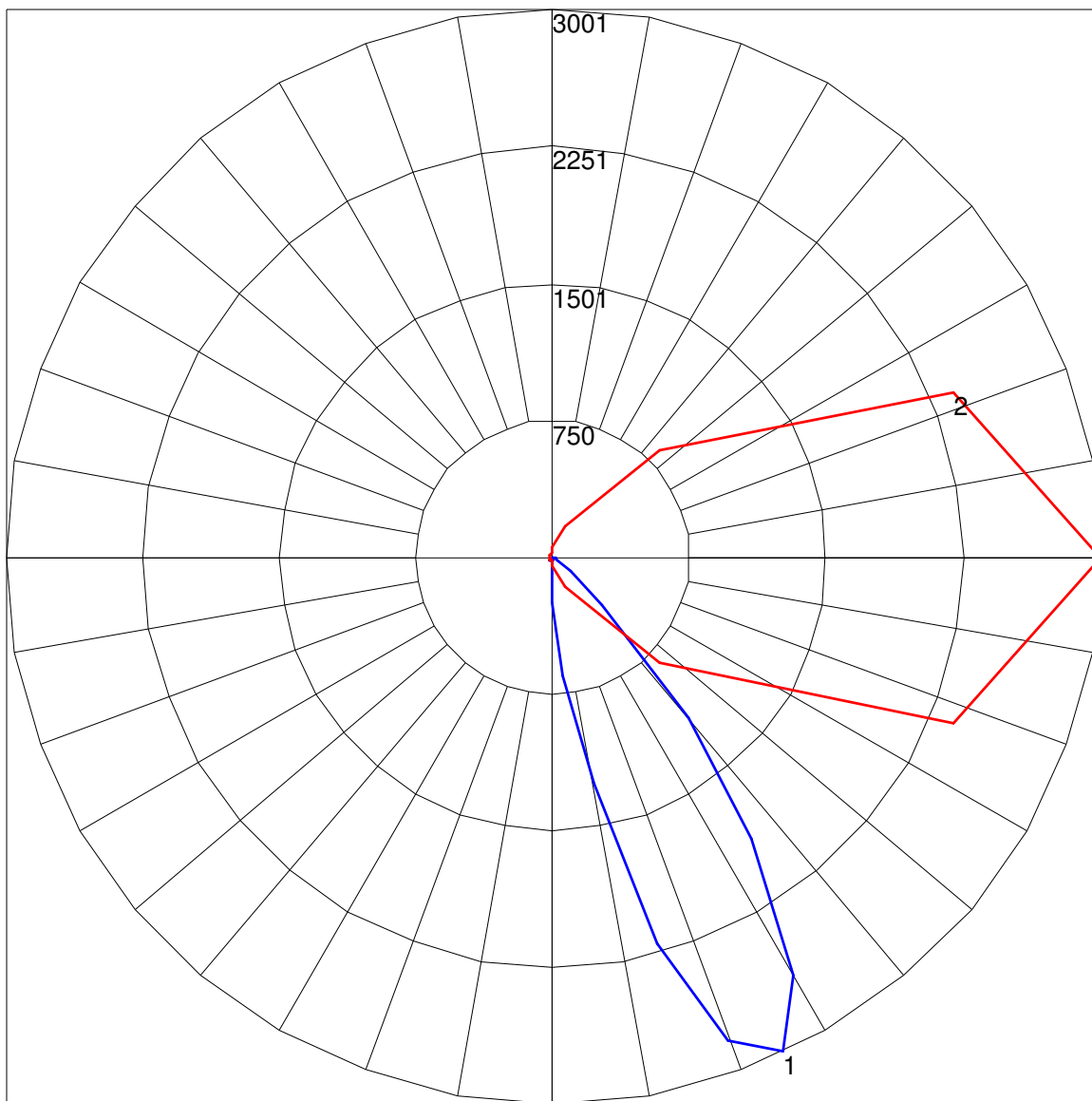
Zone	Lumens
0-10	31.75
10-20	157.21
20-30	279.11
30-40	216.22
40-50	71.02
50-60	16.82
60-70	6.37
70-80	1.39
80-90	0.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4AR-L11-8TW-DIM-UNV-AM-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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56
1	63	62	60	59	62	60	59	58	58	57	56	56	55	54	54	53	53	52
2	60	57	54	52	58	56	53	52	54	52	50	52	51	49	51	49	48	47
3	56	52	49	47	55	51	49	46	50	48	46	49	47	45	47	46	44	43
4	53	48	45	42	52	48	44	42	46	44	41	45	43	41	44	42	40	39
5	50	45	41	38	49	44	41	38	43	40	38	42	39	37	41	39	37	36
6	47	41	38	35	46	41	37	35	40	37	35	39	36	34	38	36	34	33
7	44	38	35	32	43	38	34	32	37	34	32	36	34	32	36	33	31	30
8	42	36	32	29	41	35	32	29	35	31	29	34	31	29	33	31	29	28
9	39	33	30	27	39	33	29	27	32	29	27	32	29	27	31	29	27	26
10	37	31	27	25	36	31	27	25	30	27	25	30	27	25	29	27	25	24

POLAR GRAPH



Maximum Candela = 3001.04 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.)