



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 20470.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 18-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 NARROW TIR OPTIC & 4"ASYM TRIM w/SOLITE LENS
 [MORE] ADVANCE # XI025C070V054DSM1 @ 610mA
 [LUMCAT] 4AR-L11-8TW-DIM-UNV-AN-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	890
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	14.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.42
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	1.22
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	152843	12828	1547
55	24787	2019	1122
65	2740	913	609
75	994	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	158.905	158.905	158.905	158.905	158.905	158.905	158.905	158.905	158.905
5	405.859	406.901	331.877	227.156	152.653	104.721	79.192	66.167	63.562
10	937.800	805.987	516.311	253.206	123.477	71.377	48.453	41.159	38.033
15	1881.852	1567.168	673.653	243.307	89.612	46.890	32.302	27.613	27.092
20	3050.455	2170.486	776.290	196.938	58.873	31.260	23.966	21.361	21.882
25	3790.796	2613.336	712.207	131.292	37.512	22.924	19.277	18.235	19.277
30	3769.435	2478.918	530.378	79.192	23.966	17.193	15.630	15.109	15.630
35	3037.951	1906.860	333.440	44.806	16.672	13.025	13.546	13.025	14.067
40	1941.246	1115.982	182.350	22.924	11.462	9.899	10.941	10.941	13.546
45	875.280	471.505	73.461	13.025	8.857	9.378	10.420	11.462	12.504
50	315.205	193.812	29.176	8.336	6.773	8.857	8.857	9.899	11.983
55	115.141	53.663	9.378	5.210	5.210	6.773	7.294	8.336	8.857
60	29.176	15.109	4.689	3.126	3.126	4.168	4.689	5.731	6.773
65	9.378	5.210	3.126	2.605	2.084	2.084	3.126	3.126	3.126
70	4.168	3.126	1.563	0.000	0.521	0.521	0.521	1.563	2.084
75	2.084	1.563	0.000	0.000	0.000	0.000	0.000	0.000	1.563
80	1.563	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.521
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 : 4AR-L11-8TW-DIM-UNV-AN-OF-WH_25 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	153.38	N.A.	17.20
0-30	454.39	N.A.	51.00
0-40	748.08	N.A.	84.00
0-60	885.78	N.A.	99.50
0-80	890.23	N.A.	100.00
0-90	890.27	N.A.	100.00
10-90	868.31	N.A.	97.50
20-40	594.70	N.A.	66.80
20-50	710.18	N.A.	79.80
40-70	141.54	N.A.	15.90
60-80	4.46	N.A.	0.50
70-80	0.62	N.A.	0.10
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	890.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

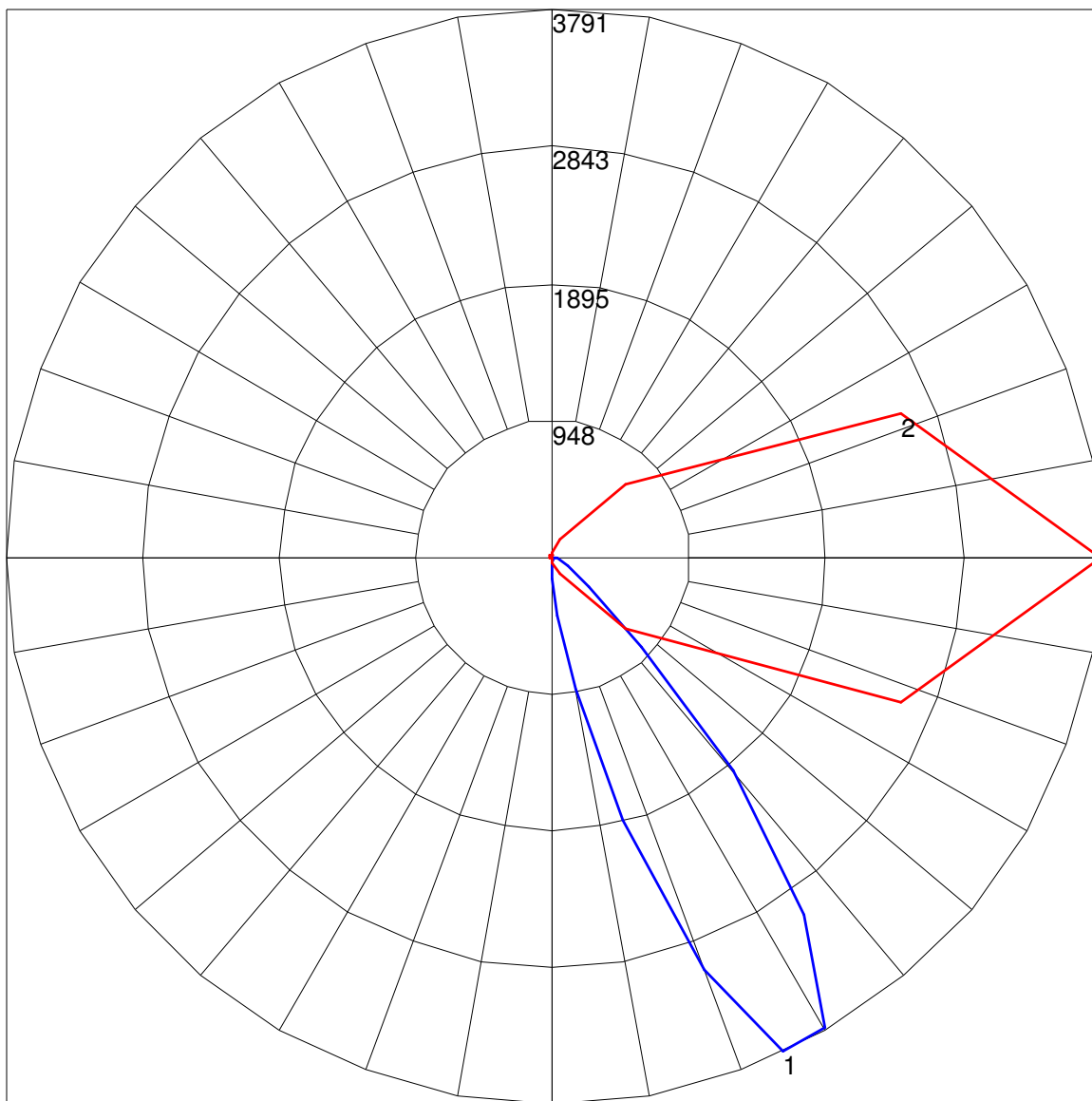
Zone	Lumens
0-10	21.96
10-20	131.42
20-30	301.01
30-40	293.69
40-50	115.48
50-60	22.21
60-70	3.84
70-80	0.62
80-90	0.04
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	62	62	62	62	61	61	61	61	58	58	58	55	55	55	53	53	53	52
1	59	57	56	54	57	56	55	53	54	53	52	52	51	50	50	49	49	48
2	55	52	50	48	54	51	49	47	50	48	46	48	47	45	47	45	44	43
3	52	48	45	42	51	47	44	42	46	43	41	44	42	41	43	42	40	39
4	49	44	41	38	47	43	40	38	42	39	37	41	39	37	40	38	36	36
5	45	40	37	34	44	40	36	34	39	36	34	38	35	33	37	35	33	32
6	43	37	33	31	42	37	33	31	36	33	30	35	32	30	34	32	30	29
7	40	34	30	28	39	34	30	28	33	30	28	32	30	27	32	29	27	26
8	37	32	28	25	37	31	28	25	31	27	25	30	27	25	29	27	25	24
9	35	29	26	23	34	29	25	23	28	25	23	28	25	23	27	25	23	22
10	33	27	23	21	32	27	23	21	26	23	21	26	23	21	25	23	21	20

POLAR GRAPH



Maximum Candela = 3790.796 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.)